

# Resources on Climate Change for Community Outreach Professionals

Community outreach professionals may need information on climate change to incorporate into programs they deliver. These lists of resources are specifically tailored according to five broad topic areas that community outreach professionals cover in educational presentations. The topic areas are Economic Development, Land Use, Water Quality, Ecosystem Management, and Invasive Species. These lists of educational materials are a product of 'Coordinating Climate Outreach', a project of the Great Lakes Regional Water Program.

## FOR THOSE WHO PROGRAM IN LAND USE

If you give educational programs on land use in your community and are looking for locally relevant information on climate change or adaptation to incorporate into programs you already deliver, here are some resources for you. Each of these resources is scientifically accurate, practical, and easy to find. Most come from government agencies and all are recommended by Extension staff. They are publications, annotated slides, videos, posters, or webinars that you can use as background information or as educational materials to insert into programs you develop. This list of educational materials is a product of 'Coordinating Climate Outreach', a project of the Great Lakes Regional Water Program.

## EDUCATIONAL MATERIALS

### DESCRIBING CLIMATE CHANGE AND WHAT WE CAN DO ABOUT IT

TITLE & DESCRIPTION	FORMAT	SOURCE
<p><b>Climate Literacy Framework</b>  <i>A Guide for Individuals and Communities</i>                      The most widely accepted framework for teaching.</p>	<p>Booklet with graphics, glossary, references</p>	<p>US Global Change Research Program, which is made up of several federal agencies led by the National Oceanic and Atmospheric Administration (NOAA).  <a href="http://www.globalchange.gov/resources/educators/climate-literacy">http://www.globalchange.gov/resources/educators/climate-literacy</a></p>
<p><b>Climate Change: Evidence, Impacts, and Choices</b>                      Video titled <b>Climate Change: Lines of Evidence</b></p>	<p>Booklet and a set of separate graphs and images. Also a video.                      Video is 26 min long, broken into 7 chapters that can be viewed separately                      Available in Spanish</p>	<p>National Academy of Sciences  <a href="http://nas-sites.org/americasclimatechoices/more-resources-on-climate-change/climate-change-lines-of-evidence-booklet/">http://nas-sites.org/americasclimatechoices/more-resources-on-climate-change/climate-change-lines-of-evidence-booklet/</a>                      Video: <a href="http://nas-sites.org/americasclimatechoices/videos-multi-media/climate-change-lines-of-evidence-videos/">http://nas-sites.org/americasclimatechoices/videos-multi-media/climate-change-lines-of-evidence-videos/</a></p>
<p><b>Climate Change Science Basics and Impacts around the Great Lakes</b></p>	<p>23 minute presentation within a webinar                      Slides</p>	<p>Jeff Rogers, Ohio State University  <a href="http://changingclimate.osu.edu/webinars/archives/2010-05-06/">http://changingclimate.osu.edu/webinars/archives/2010-05-06/</a>                      Play webinar and go forward to time stamp 7:35 (start of presentation Climate Change Science Basics and Impacts around the Great Lakes Region)</p>
<p><b>Assessment Report, other titles</b>                      Definitive worldwide authority for governmental policy</p>	<p>Reports, facts sheets, posters, videos</p>	<p>Intergovernmental Panel on Climate Change (IPCC), established by the United Nations and World Meteorological Organization  <a href="http://www.ipcc.ch/news_and_events/outreach.shtml#UheKS2SAfsl">http://www.ipcc.ch/news_and_events/outreach.shtml#UheKS2SAfsl</a>                      Select 'Materials' tab</p>

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## Resources on Climate Change for Community Outreach Professionals - Land Use

### COMMUNICATION ABOUT CLIMATE CHANGE

TITLE & DESCRIPTION	FORMAT	SOURCE
<p><b>Global Warming's Six Americas</b> How Americans think about climate change and solutions, and how their outlook divides them into six groups</p>	A set of materials based on a research project about American's perception of climate change	Yale Project on Climate Change Communication, part of Yale School of Forestry and Environmental Studies <a href="http://environment.yale.edu/climate-communication/about">http://environment.yale.edu/climate-communication/about</a>
<p><b>Communicating with the Public about Climate Change: Understanding Global Warming's Six Americas</b></p>	Webinar	Ohio Sea Grant hosted Teresa Myers, Center for Climate Change Communication at George Mason University <a href="http://changingclimate.osu.edu/webinars/archives/2012-11-08/">http://changingclimate.osu.edu/webinars/archives/2012-11-08/</a>
<p><b>Improving the effectiveness of communication about climate science: A communication scientist's perspective</b> How to present information to specific groups of people, based on knowledge of Global Warming's Six Americas</p>	PowerPoint Presentations and text	Edward Maibach, of the George Mason University Center for Climate Change Communication <a href="http://www.climatechangecommunication.org/other-resources/powerpoint-presentations">http://www.climatechangecommunication.org/other-resources/powerpoint-presentations</a>
<p><b>Polling the American Public on Climate Change</b> Reviews results from various population polls</p>	Fact sheet	Environmental and Energy Study Institute <a href="http://www.eesi.org/fact-sheet-polling-american-public-climate-change-02-apr-2013">http://www.eesi.org/fact-sheet-polling-american-public-climate-change-02-apr-2013</a>

### LOCAL INFORMATION ABOUT CLIMATE CHANGE

TITLE & DESCRIPTION	FORMAT	SOURCE
<p><b>Global Climate Change Impacts in the U.S.</b> Temperature, Water, Ecosystems, Agriculture, Human Health</p>	Web based report searchable by region	US Global Change Research Program, which is made up of several federal agencies led by the National Oceanic and Atmospheric Administration (NOAA). <a href="http://nca2009.globalchange.gov/">http://nca2009.globalchange.gov/</a>
<p><b>Climate Wisconsin: Stories from a State of Change</b> Impacts on maple sugaring, cross country skiing, Great Lakes shipping, farming, ice fishing, etc</p>	12 short video clips	Educational Communications Board, Wisconsin Initiative on Climate Change Impacts, University of Wisconsin, and Corporation for Public Broadcasting. <a href="http://climatewisconsin.org/">http://climatewisconsin.org/</a>
<p><b>Midwest Climate Watch</b> Local climate info, real time weekly and monthly summaries</p>	Maps, reports, apps	Midwestern Regional Climate Center <a href="http://mcc.sws.uiuc.edu/cliwatch/watch.htm">http://mcc.sws.uiuc.edu/cliwatch/watch.htm</a>
<p><b>Wisconsin Initiative on Climate Change Impacts</b> Local and future climate, and adaptation strategies</p>	Maps, reports, presentations, videos	Wisconsin Initiative on Climate Change Impacts (WICCI), composed of state and federal agencies, University of WI, non-profits and businesses <a href="http://www.wicci.wisc.edu/">http://www.wicci.wisc.edu/</a>

## Resources on Climate Change for Community Outreach Professionals - Land Use

### LAND USE AND CLIMATE CHANGE ADAPTATION STRATEGIES

TITLE & DESCRIPTION	FORMAT	SOURCE
<p><b>Introduction to Climate and Energy Action</b> Information on community case studies, policies, building partnerships, financing climate change adaptation</p>	Case studies, adaptation plans, fact sheets, guidebooks	ICLEI—Local Governments for Sustainability, a membership organization. You can access these materials for free; and members can access consulting services and much more <a href="http://www.icleiusa.org/climate_and_energy">http://www.icleiusa.org/climate_and_energy</a>
<p><b>NOAA Coastal Services Center “Digital Coast”</b> Use “search” feature and key words “climate adaptation” or similar to find resources. Search by state or region.</p>	Climate action plans that cities and towns have created, case studies, and risk assessments	National Oceanic Administration (NOAA) Coastal Services Center <a href="http://csc.noaa.gov/digitalcoast/">http://csc.noaa.gov/digitalcoast/</a>
<p><b>Great Lakes Community Climate Program and Great Lakes Restoration Toolkit</b> Incorporate climate change adaptation into programs that protect water resources</p>	Case studies, summary reports, resource manual	Freshwater Future, a non-profit organization <a href="http://www.freshwaterfuture.org/resources/great-lakes-community-climate-program.html">http://www.freshwaterfuture.org/resources/great-lakes-community-climate-program.html</a>
<p><b>Model Municipal Ordinances</b> Regulate green buildings, renewable energy</p>	Legal ordinances a municipality can adapt for their own use	Columbia Law School Center for Climate Change Law <a href="http://web.law.columbia.edu/climate-change/resources/model-ordinances">http://web.law.columbia.edu/climate-change/resources/model-ordinances</a>

### LAND USE AND PLANNING FOR CLIMATE CHANGE

TITLE & DESCRIPTION	FORMAT	SOURCE
<p><b>Climate Ready Great Lakes</b> Give stakeholders and decision makers information about Great Lakes climate, and help them plan what is needed to adapt</p>	Three modules and annotated slides	Great Lakes Sea Grant Network and the National Oceanic and Atmospheric Administration (NOAA) Great Lakes Regional Collaboration Team <a href="http://www.regions.noaa.gov/great-lakes/resources/climate-ready-great-lakes/">http://www.regions.noaa.gov/great-lakes/resources/climate-ready-great-lakes/</a>
<p><b>Great Lakes Coastal Resilience Planning Guide</b> Give stakeholders and decision makers information about Great Lakes climate, and help them plan what is needed to adapt</p>	Case studies and information	Great Lakes Resilience, part of NOAA <a href="http://greatlakesresilience.org/">http://greatlakesresilience.org/</a>
<p><b>Upgrade Your Infrastructure: A Guide to the Green Infrastructure Portfolio Standard And Building Stormwater Retrofits</b> Describes long term gains from implementation of green infrastructure</p>	Guide, case studies	Center For Neighborhood Technology, American Rivers, The Great Lakes and St. Lawrence Cities Initiative. <a href="http://www.cnt.org/resources/upgrade-your-infrastructure/">http://www.cnt.org/resources/upgrade-your-infrastructure/</a>
<p><b>Go Zero</b> Individuals can calculate their carbon footprint</p>	Calculator tools and other information on emissions	The Conservation Fund <a href="http://www.conservationfund.org/our-conservation-strategy/major-programs/go-zero/">http://www.conservationfund.org/our-conservation-strategy/major-programs/go-zero/</a>
<p><b>Travel Matters</b> Information on transportation choices and climate change, carbon footprint</p>		Travel Matters, created by the Center for Neighborhood Technology <a href="http://www.travelmatters.org/">Google TravelMatters.org to find link</a>

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### LAND USE AND ECOSYSTEM MANAGEMENT

TITLE & DESCRIPTION	FORMAT	SOURCE
<p><b>Scanning the Public Conservation Horizon: A Guide to Climate Change Vulnerability Assessment</b></p> <p>Information on vulnerability assessment. Detailed report with case studies.</p>	Report	<p>NOAA and many others</p> <p><a href="http://www.habitat.noaa.gov/pdf/scanning_the_conservation_horizon.pdf">http://www.habitat.noaa.gov/pdf/scanning_the_conservation_horizon.pdf</a></p>

### LAND USE AND INVASIVE SPECIES MANAGEMENT

TITLE & DESCRIPTION	FORMAT	SOURCE
<p><b>Great Lakes Environmental Assessment and Mapping Project</b></p> <p>Information on aquatic habitat, climate change, coastal development, fisheries, invasive species, nonpoint pollution, toxic chemicals</p>	Maps of stressors to the Great Lakes	<p>University of Michigan</p> <p><a href="http://www.greatlakesmapping.org/">http://www.greatlakesmapping.org/</a></p>

### PROFESSIONAL DEVELOPMENT OPPORTUNITIES CONCERNING CLIMATE CHANGE AND ADAPTATION

TITLE & DESCRIPTION	FORMAT	SOURCE
<p><b>Global and Regional Climate Change</b></p> <p>Climate systems, modeling, climate change. Content follows Climate Literacy Framework (NOAA) and IPCC.</p>	<p>On line course for professional development.</p> <p>16-20 hours</p> <p>Free</p>	<p>University of Wisconsin-Madison, Space Science and Engineering Center</p> <p><a href="http://cimss.ssec.wisc.edu/climatechange/nav/register.html">http://cimss.ssec.wisc.edu/climatechange/nav/register.html</a></p>
<p><b>Climate Ready Great Lakes</b></p> <p>Give stakeholders and decision makers information about Great Lakes climate, and help them plan what is needed to adapt</p>	Three modules and annotated slides	<p>Great Lakes Sea Grant Network and the NOAA Great Lakes Regional Collaboration Team</p> <p><a href="http://www.regions.noaa.gov/great-lakes/resources/climate-ready-great-lakes/">http://www.regions.noaa.gov/great-lakes/resources/climate-ready-great-lakes/</a></p>
<p><b>Climate Change and Water Resources Impacts in the Great Lakes Region.</b></p> <p>See also other webinars in archives.</p>	Webinar	<p>Jon MacDonagh Dumler</p> <p><a href="http://changingclimate.osu.edu/webinars/archives/2010-05-06/">http://changingclimate.osu.edu/webinars/archives/2010-05-06/</a></p> <p>Visit archives for other webinar titles</p>

### TOOLS FOR VISUALIZING THE EFFECTS OF CLIMATE CHANGE AND FOR PLANNING ADAPTATION STRATEGIES

TITLE & DESCRIPTION	FORMAT	SOURCE
<p><b>Climate Wizard</b></p> <p>Temperature and precipitation changes in a particular geographic region</p>	Interactive website	<p>Nature Conservancy, University of Washington, University of Southern Mississippi</p> <p><a href="http://www.climatewizard.org/">http://www.climatewizard.org/</a></p>
<p><b>CanVis</b></p> <p>Visualization program used to "see" potential impacts from coastal development or lake level changes</p>	Program tool	<p>NOAA Coastal Service Center, USDA National Agroforestry Center</p> <p><a href="http://greatlakesresilience.org/maps-tools-data/tools/canvis">http://greatlakesresilience.org/maps-tools-data/tools/canvis</a></p>

#### Coordinating Climate Outreach, a project of the Great Lakes Regional Water Program

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This material is based upon work supported by the National Institute of Food and Agriculture, U.S. Department of Agriculture, under Agreement No.2008-51130-04751. Any opinions, findings, conclusions, or recommendations expressed in this publication are those of the author(s) and do not necessarily reflect the view of the U.S. Department of Agriculture.

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