

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 ECOSYSTEM MANAGEMENT

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

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Resources on Climate Change for Community Outreach Professionals - Ecosystem Management

COMMUNICATION ABOUT CLIMATE CHANGE

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

LOCAL INFORMATION ABOUT CLIMATE CHANGE

TITLE & DESCRIPTION	FORMAT	SOURCE
Global Climate Change Impacts in the U.S. Temperature, Water, Ecosystems, Agriculture, Human Health	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). http://nca2009.globalchange.gov/
Climate Wisconsin: Stories from a State of Change Impacts on maple sugaring, cross country skiing, Great Lakes shipping, farming, ice fishing, etc	12 short video clips	Educational Communications Board, Wisconsin Initiative on Climate Change Impacts, University of Wisconsin, and Corporation for Public Broadcasting. http://climatewisconsin.org/
Midwest Climate Watch Local climate info, real time weekly and monthly summaries	Maps, reports, apps	Midwestern Regional Climate Center http://mcc.sws.uiuc.edu/cliwatch/watch.htm
Wisconsin Initiative on Climate Change Impacts Local and future climate, and adaptation strategies	Maps, reports, presentations, videos	Wisconsin Initiative on Climate Change Impacts (WICCI), composed of state and federal agencies, University of WI, non-profits and businesses http://www.wicci.wisc.edu/

WATER QUALITY, ECOSYSTEM MANAGEMENT, AND CLIMATE CHANGE ADAPTATION STRATEGIES

TITLE & DESCRIPTION	FORMAT	SOURCE
NOAA Coastal Services Center "Digital Coast" Use "search" feature and key words "climate adaptation" or similar to find resources. Search by state or region.	Climate action plans that cities and towns have created, case studies, and risk assessments	National Oceanic Administration (NOAA) Coastal Services Center http://csc.noaa.gov/digitalcoast/
Great Lakes Community Climate Program and Great Lakes Restoration Toolkit Incorporate climate change adaptation into programs that protect water resources	Case studies, summary reports, resource manual	Freshwater Future, a non-profit organization http://www.freshwaterfuture.org/resources/great-lakes-community-climate-program.html

Resources on Climate Change for Community Outreach Professionals - Ecosystem Management

ECOSYSTEM MANAGEMENT AND COMMUNITY PLANNING FOR CLIMATE CHANGE

TITLE & DESCRIPTION	FORMAT	SOURCE
Climate Ready Great Lakes Give stakeholders and decision makers information about Great Lakes climate, and help them plan what is needed to adapt	Three modules and annotated slides	Great Lakes Sea Grant Network and the National Oceanic and Atmospheric Administration (NOAA) Great Lakes Regional Collaboration Team http://www.regions.noaa.gov/great-lakes/resources/climate-ready-great-lakes/
Great Lakes Coastal Resilience Planning Guide Give stakeholders and decision makers information about Great Lakes climate, and help them plan what is needed to adapt	Case studies and information	Great Lakes Resilience, part of NOAA http://greatlakesresilience.org/
Go Zero Individuals can calculate their carbon footprint	Calculator tool	The Conservation Fund http://www.conservationfund.org/our-conservation-strategy/major-programs/go-zero/

ECOSYSTEM MANAGEMENT

TITLE & DESCRIPTION	FORMAT	SOURCE
Scanning the Public Conservation Horizon: A Guide to Climate Change Vulnerability Assessment Information on vulnerability assessment. Detailed report with case studies.	Report	NOAA and many others http://www.habitat.noaa.gov/pdf/scanning_the_conservation_horizon.pdf
Ecological Impacts of Climate Change	Booklet, 28 pages	National Academy of Sciences http://dels.nas.edu/Materials/Booklets/Ecological_Impacts
Effects of Climate Change on Species Interactions in Natural and Agricultural Ecosystems Species distributions, Ecological interactions, agricultural pests, focus on Great Lakes states	Webinar	Ohio Sea Grant hosted Dan Herms, Ohio State University http://changingclimate.osu.edu/webinars/archives/2010-10-14/

PROFESSIONAL DEVELOPMENT OPPORTUNITIES CONCERNING CLIMATE CHANGE AND ADAPTATION

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

Resources on Climate Change for Community Outreach Professionals - Ecosystem Management

ECOSYSTEM MANAGEMENT AND INVASIVE SPECIES MANAGEMENT

TITLE & DESCRIPTION	FORMAT	SOURCE
Great Lakes Environmental Assessment and Mapping Project Information on aquatic habitat, climate change, coastal development, fisheries, invasive species, nonpoint pollution, toxic chemicals	Maps of stressors to the Great Lakes	University of Michigan http://www.greatlakesmapping.org/
Invasive Species in the Great Lakes Region Resource center for invasive species information	General resources, educational materials, photos, laws	Great Lakes Information Network http://www.great-lakes.net/envt/flora-fauna/invasive/invasive.html
Great Lakes Aquatic Nonindigenous Species Information System (GLANSIS) Database for non-indigenous species that have entered the Great Lakes	Photos, search tool, ecology	NOAA http://www.glerl.noaa.gov/res/Programs/glansis/glansis.html
Midwest Invasive Species Information Network (MISIN) Interactive mapping tool to identify locations of invasive species	Also has training on invasive species ID	Michigan State University http://www.misin.msu.edu/

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

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

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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