

U.S. Climate Resilience Toolkit

	Parent Topic											Functionality										Great Lakes Relevance	Comments on tools relative to potential use in the Great Lakes region.
	Built Environment (226)	Coasts (152)	Ecosystems (124)	Water (117)	Health (111)	Tribal Nations (97)	Energy (74)	Food (68)	Transportation (61)	Marine (51)	Identify Vulnerabilities (210)	View Past/Current Conditions (157)	Analyze/Download Data (130)	Engage/Communicate (127)	Find Adaptation Planning Support (99)	Check Applied Forecasts (90)	Recover/Rebuild (43)	Visualize Climate Projections (40)					
Tools (405 as of 6/11/18)	x			x							x									yes	Draws from four case studies - three from Great Lakes (Duluth, Green Bay, Toledo)		
A Guide to Assessing Green Infrastructure Costs and Benefits for Flood Reduction												x	x							yes - GL coverage	Maps of temperature and precipitation variables for the contiguous United States. Includes Great Lakes region.		
ACIS Climate Maps				x																yes	Report with case studies.		
Adaptation Tool Kit: Sea-Level Rise and Coastal Land Use	x	x													x					yes	Structured process that helps land managers and owners consider the potential effects of climate change on forests and agricultural lands. Great Lakes case studies.		
Adaptation Workbook for Land Management and Conservation	x		x								x				x					yes	Specific to Jamaica Bay, NY.		
AdaptMap Jamaica Bay	x	x		x							x		x	x				x	no	Spatial database designed to compare conservation approaches and inform planning. National but prioritized to northwest.			
AdaptWest Climate Adaptation Planning Database	x		x								x	x	x		x				x	National web-based tool that includes data for the Great Lakes.			
Advanced Hydrologic Prediction Service	x	x	x	x	x						x	x	x		x				yes - GL coverage	Suite of economic, financial, and environmental decision tools designed for businesses that grow, harvest, package, add value, and sell agricultural products. Geared to northwest?			
AgBiz Logic											x	x	x	x	x			x	?				
Agricultural Conservation Planning Framework (ACPF) Toolbox			x	x							x	x	x						?				
AgroClimate—Tools for Managing Climate Risk in Agriculture											x	x	x		x				no				
AirNow: Air Quality Index (AQI) Monitoring and Forecasts					x						x								?				
Alaska and Northwestern Canada Quarterly Climate Impacts and Outlook	x	x	x	x	x	x	x	x	x	x	x								no	Specific to Alaska.			
Alaska Arctic Observatory and Knowledge Hub		x	x																no	Specific to Alaska.			
Alaska Climate and Weather Highlights																			no	Specific to Alaska.			
Alaska Coastal Change Viewer	x	x																	no	Specific to Alaska.			
Alaska Coastal Profile Tool											x	x							no	Specific to Alaska.			
Alaska Community Inundation Maps											x				x				no	Specific to Alaska.			
Alaska Online Aquatic Temperature Site (AKOATS)				x	x							x	x						no	Specific to Alaska.			
Alaska Shoreline Change Tool																			no	Specific to Alaska.			
Alaska ShoreZone Coastal Mapping and Imagery																		x	no	Specific to Alaska.			
Alaska Weeds ID Mobile App																			no	Specific to Alaska.			
Alaskan Arctic National Parks Landscape Viewer																			no	Specific to Alaska.			
Annual Greenhouse Gas Index																			no				
Aquatic Connectivity Assessment and Prioritization Tool	x	x	x	x							x	x	x		x			x	check				
Arctic Adaptation Exchange	x	x	x		x	x	x	x	x						x	x			no	Specific to Arctic.			
Arctic ERMA® (Environmental Response Management Application)	x																	x	no	Specific to Arctic.			
Arctic LCC Projections												x	x					x	no	Specific to Arctic.			
Arctic Risk Map											x	x							no	Specific to Arctic.			
ASR Recovery Initiation Index	x			x														x	no	Specific to Florida? Broken Link.			
Assessing Health Vulnerability to Climate Change: A Guide for Health Departments																			?				
Atlas of Community-Based Monitoring and Traditional Knowledge in a Changing Arctic	x																		no	Specific to Arctic.			
Atlas of the Cryosphere																			no	Specific to Arctic.			
Barrow Sea Ice Thickness and Sea Level Webcam and Radar																			no	Specific to Arctic.			
Beach and Tidal Inlet Habitat Inventories—North Atlantic																			no	Specific to North Atlantic.			
Beach-fx	x	x																x	?	Desktop software to model and measure the costs and benefits of protecting beaches.			
Beat the Heat in Houston																			no	Specific to Houston.			
Being Prepared for Climate Change: A Workbook for Developing Risk-Based Adaptation Plans			x	x	x														yes				
Benefits Mapping and Analysis Program—Community Edition (BenMAP-CE)																			check	Report in pdf			
Bering Strait Response Teaching Tool	x																		no	Specific to Arctic.			
Biodiversity Information Serving Our Nation (BISON)																			?	National web-mapping site to view patterns of plant/animal species by Oak Ridge NL.			
Bioenergy Knowledge Discovery Framework	x																		no				
Biofuels Atlas																			no				
Biopower Atlas	x																		no				
Bringing Wetlands to Market: BWM Wetland GHG Model																			?				
Building Resilience Against Climate Effects (BRACE) Framework																			check				
Cal-Adapt	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x				no	Specific to California.			
CalWeedMapper																			no				
CanVis	x	x																	yes	Desktop tool for photo simulation of coasts.			
Carbon Storage in Forests																			no	National website by EPA to examine carbon storage in forests.			
CarbonScapes																			?				
CarbonTracker																			no	NOAA product to keep track of sources and sinks of carbon dioxide.			
Cattle Heat Stress Forecast Maps																			yes	Contiguous US. Cattle producers can consult maps to anticipate when heat stress may affect their animals.			
Cities Impacts & Adaptation Tool (CIAT)	x		x	x	x														yes - GL specific	Developed by Graham Institute. Tool identifies a custom network of "climate peers" through an interactive map interface.			
Climate Adaptation Knowledge Exchange (CAKE)	x	x	x	x	x	x	x	x	x										yes				
Climate at a Glance	x																		?	NOAA website that generates graphs and maps of climate variables for selected cites to the globe.			
Climate at a Glance Application																			yes	National in scope. Use this application to comprehensively explore the question "Climate variability or climate change?" The app allows users to change parameters, times scales, and locations.			
Climate Change & Extreme Weather Vulnerability Assessment Framework	x																		yes				
Climate Change Adaptation Planning Manual for Coastal Alaskans and Marine-Dependent Communities	x	x																	no	Specific to Alaska.			
Climate Change Adaptation Resource Center (ARC-X)	x		x	x	x	x													check				
Climate Change and Human Health Literature Portal																			?				
Climate Change Atlas for Tree and Bird Species	x		x																yes - GL coverage	National website by USFS to define ranges of birds and trees in the eastern US - includes Great Lakes region.			
Climate Change Field Guide for Northern Minnesota Forests																			yes - GL specific	Climate change reference during field visits or forest planning in northern Minnesota.			
Climate Change Preparedness and Resiliency Checklist	x	x																	no	Specific to Boston.			
Climate Change Resilience Roadmap	x																		check				
Climate Change Resource Center	x																		?				
Climate Change Vulnerability Assessment Tool for Coastal Habitats (CCVATCH)																			check				
Climate Change: Ecosystem Considerations																			check				
Climate Commons																			?				
Climate Explorer																			x	yes	National web mapping site by NOAA to display climate stressors and their impacts - stressors are ocean specific.		
Climate Explorer (Legacy Version)	x	x	x	x	x	x	x	x	x	x	x	x	x						?				
Climate Inspector	x	x	x	x	x	x	x	x	x										x	yes	Global web mapping site by UCAR to explore projected changes in temperature or precipitation for four different emissions trajectories.		
Climate Mapper Tool																			x	yes	Contiguous US. Display relevant past and projected future climate information to assist with decisions related to agriculture, drought, and fire conditions.		
Climate Ready Infrastructure and Sensitive Sites Protocol (CRISSP)	x	x																	yes - GL specific	GLISA project with AECOM piloted in Gary, IN that generate a quick assessment of the vulnerability of municipal assets to extreme weather.			
Climate Registry for the Assessment of Vulnerability (CRAVE)	x																		yes				
Climate Resilience Evaluation & Awareness Tool (CREAT)	x																		yes				
Climate Resilience in Alaskan Communities: Catalog of Federal Programs	x	x																	no	Specific to Alaska.			
Climate Service Providers Database NOAA Western Region	x	x	x	x	x	x	x	x	x										no	Specific to western region of the US.			

