



Climate Change Resources

NOAA Climate.gov

NOAA Climate.gov provides science and information for a climate-smart nation. Americans' health, security, and economic well-being are closely linked to climate and weather. People want and need information to help them make decisions on how to manage climate-related risks and opportunities they face.

<https://www.climate.gov>

Our Coast, Our Future

Our Coast, Our Future is a collaborative, user-driven project focused on providing coastal California resource managers and land use planners locally relevant, online maps and tools to help understand, visualize, and anticipate vulnerabilities to sea level rise and storms.

<http://data.pointblue.org/apps/ocof/cms/>

U.S. Climate Resilience Toolkit -- Climate Explorer

The Climate Explorer offers graphs, maps, and downloadable data of observed and projected climate variables for every county in the contiguous United States. The tool shows graphs and maps of climate projections for temperature, precipitation, and related climate variables for two possible futures: one in which humans make a moderate attempt to reduce global emissions of heat-trapping gases, and one in which the rate of global emissions continues rising through 2100.

<https://toolkit.climate.gov/tool/climate-explorer-0>

Climate Smart Conservation

The National Wildlife Federation and an expert workgroup consisting of leaders in climate adaptation from federal and state agencies and non-governmental organizations offer guidance for designing and carrying out conservation in the face of a rapidly changing climate. This guide will help conservationists and resource managers incorporate climate change considerations into their work. The report demystifies the discipline of climate adaptation by offering a common-sense approach to adaptation planning and implementation that breaks the process into discrete and manageable steps.

<https://www.nwf.org/climatesmartguide>

Guide for Planners and Managers to Design Resilient Marine Protected Area Networks in a Changing Climate

Climate change, along with pollution and overfishing, is one of the great challenges facing North America's shared ocean today. Through the project Engaging Communities to Conserve Marine Biodiversity through NAMPAN (North American Marine Protected Areas Network), the Commission for Environmental Cooperation (CEC) gathered scientific information on the impact of climate change on marine protected area (MPA) networks to improve the design and management process for healthier, a more resilient ocean. This guide is intended to help MPA program and network planners and managers meet the climate change challenge.

<http://www3.cec.org/islandora/en/item/10856-guide-planners-and-managers-design-resilient-marine-protected-area-networks-in-en.pdf>

Scientific Guidelines for Designing Resilient Marine Protected Area Networks in a Changing Climate

This document was developed from a larger report by the Study Group on Designing Marine Protected Area Networks in a Changing Climate (SGMPAN), a joint study group of the Commission for Environmental Cooperation (CEC) through its North American Marine Protected Area Network (NAMPAN) Technical Group and the International Council for the Exploration of the Sea (ICES).

<http://www3.cec.org/islandora/en/item/10820-scientific-guidelines-designing-resilient-marine-protected-area-networks-in-changing-en.pdf>

North American Marine Protected Area Rapid Vulnerability Assessment Tool

This tool has three parts (a user guide, a set of blank worksheets, and a booklet containing sample completed worksheets) that are available as downloadable PDFs. The blank worksheets are in a dynamic PDF format so that users can easily fill, save and share their completed worksheets. This tool is a product of the CEC's 2015-2016 project Marine Protected Areas: Strengthening Management Effectiveness and Supporting Coastal Community Resilience.

<http://www3.cec.org/islandora/en/item/11739-north-american-marine-protected-area-rapid-vulnerability-assessment-tool-en.pdf>

Fourth National Climate Assessment Volume II: Impacts, Risks and Adaptation

The National Climate Assessment (NCA) assesses the science of climate change and variability and its impacts across the United States, now, and throughout this century.

<https://nca2018.globalchange.gov/>

EcoAdapt Climate Adaptation Toolkit

The Climate Adaptation Toolkit for Marine and Coastal Protected Areas was created to make climate adaptation planning a simple, direct, and feasible process for marine protected area managers. It contains tools that help protected area managers evaluate the vulnerability of their sites to climate change, identify appropriate adaptation strategies and learn about those strategies through case studies, reports and other resources.

<https://www.cakex.org/MPAToolkit>

Panorama — Solutions for a Healthy Planet Marine and Coastal Solutions

PANORAMA – Solutions for a Healthy Planet is a partnership initiative to document and promote examples of inspiring, replicable solutions across a range of conservation and sustainable development topics, enabling cross-sectoral learning and inspiration.

<https://panorama.solutions/en>



CoastAdapt: Monitoring and Evaluation in Climate Change Adaptation

Monitoring and evaluation are key stages in the adaptation process that are important as a means to demonstrate effectiveness and accountability. There are particular challenges associated with monitoring and evaluation of adaptation, related to the long timescales of climate change and its impacts.

<https://coastadapt.com.au/how-to-pages/monitoring-and-evaluation-climate-change-adaptation>

NOAA National Marine Sanctuary and National Ocean Service Sentinel Site Programs

National marine sanctuaries are where monitoring and research take place to enhance our understanding of natural and historical resources and how they are changing. They also provide an early warning capability to detect changes to ecosystem processes and conditions. National Ocean Service Sentinel Site Cooperatives are using resources wisely to build more resilient communities.

<https://sanctuaries.noaa.gov/science/sentinel-site-program/>

<https://oceanservice.noaa.gov/sentinelsites/>

NOAA Coral Reef Watch

The NOAA Coral Reef Watch program uses satellite data to provide current reef environmental conditions to quickly identify areas at risk for coral bleaching.

<https://coralreefwatch.noaa.gov/satellite/index.php>

European Climate Adaptation Platform: Monitoring and Evaluation

As governments increasingly invest in adaptation it becomes essential to ensure the effectiveness, efficiency and equity of adaptation interventions. Yet we are still at an early stage in understanding how best to adapt to future climate change, how risks can be most effectively reduced and resilience enhanced, and what the characteristics of a well-adapting society might be. Learning what works well (or not) in which circumstances and for what reasons is critical. The development of an adaptation strategy presents an opportunity to consider how to best monitor, evaluate, and report on, adaptation progress and performance.

<https://climate-adapt.eea.europa.eu/knowledge/tools/adaptation-support-tool/step-6>