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Vulnerability and Adaptation to Climate Change **Resources**



View of Hurricane Emily from the International Space Station. ©NASA

Background information on climate change and adaptation

Feeling the Heat

http://unfccc.int/essential_background/feeling_the_heat/items/2918.php

“This guide provides an introduction to climate change and shows how the international community is responding. Starting with a scientific perspective, it explains the causes and possible impacts of climate change; it also explores ways of coping and dealing with the problem. The final sections provide an insight into the United Nations Framework Convention on Climate Change and the stricter legally binding agreement: the Kyoto Protocol.”

WWF Climate: Science

<http://www.worldwildlife.org/climate/climatescience.html>

“links to recent statements and reports on climate change by preeminent scientific organizations which reflect the consensus among leading scientists regarding this urgent problem.”

Adapting to Climate Variability and Change

http://www.usaid.gov/our_work/environment/climate/docs/reports/cc_vamanual.pdf

“A guidance manual for development planning.”

Adapting to Coastal Climate Change: A Guidebook for Development Planners

http://www.usaid.gov/our_work/cross-cutting_programs/water/news_announcements/coastal_climate_change_report.html

Climate Change Adaptation Actions for Local Government

<http://www.climatechange.gov.au/impacts/publications/local-government.html>

Report by SMEC Australia developed “as part of the Australian Government’s support for adaptation to climate change and aims to help to address the need to prepare Australian governments, vulnerable industries, communities and ecosystems to manage the unavoidable consequences of climate change.”

Buying Time: a User's Manual for Building Resilience to Climate Change in Natural Systems

<http://www.worldwildlife.org/climate/WWFBinaryitem3830.pdf>

Surviving Climate Change in Small Islands - A guidebook

<http://www.tyndall.ac.uk/publications/surviving.pdf>

Report from the Tyndall Centre for Climate Change Research, United Kingdom.

Preparing for Climate Change: A Guidebook for Local, Regional and State Governments

<http://www.cses.washington.edu/db/pdf/snoveretalgb574.pdf>

Climate change adaptation projects

Regional

Adaptation to Climate Change for Marine Turtles (ACT)

<http://www.panda.org/lac/marineturtles/act>

“ The Adaptation to Climate change for marine Turtles (ACT) project is addressing how marine turtles are affected by climate change and the best ways to reduce their vulnerability to changing environmental conditions.”

Climate Change and Biodiversity in the Caribbean

<http://www.canari.org/macarthurclimatechange.html>

“ The objectives of the project are:

- To increase understanding and consensus on what is known about the predicted climate change trends and their impact on biodiversity in the islands of the Caribbean
- To identify gaps in regional knowledge and develop a research agenda to address these gaps and to identify the capacities that need to be developed to implement the agenda.”

Includes reports on GSS scenarios and models and coastal and marine biodiversity.

Caribbean Community Climate Change Centre

<http://www.caribbeanclimate.bz/news.php>

“ The Caribbean Community Climate Change Centre coordinates the Caribbean region’s response to climate change. Officially opened in August 2005, the Centre is the key node for information on climate change issues and on the region’s response to managing and adapting to climate change in the Caribbean.”

CARIB-GEF Implementation of Adaptation Measures in Coastal Zones

<http://web.worldbank.org/external/projects/main?pagePK=64283627&piPK=73230&theSitePK=40941&menuPK=228424&Projectid=P090731>

“ The Implementation of Adaptation Measures in Coastal Zones (GEF) Project aims to support efforts by Dominica, Saint Lucia and St. Vincent and the Grenadines to implement specific (integrated) pilot adaptation measures addressing, primarily, the impacts of climate change on their natural resource base, focused on biodiversity and land degradation along coastal and near-coastal areas. The project also seeks to produce knowledge of global value on how to implement adaptation measures in small island states that can be applied in other countries in the region, not participating in the project and even for islands in other regions of the world.”

CARIBSAVE

<http://caribsave.org/>

“CARIBSAVE is a partnership formed between the Caribbean Community Climate Change Centre (CCCCC) and the University of Oxford to address the impacts and challenges surrounding climate change, the environment, tourism and related sectors throughout the Caribbean region on a long-term basis. Tourism and other critical sectors including energy, infrastructure, agriculture, biodiversity, water, health and disaster management are interlinked and interdependent and CARIBSAVE takes a unique and innovative approach to the challenges of climate change by involving stakeholders from all these sectors.”

CARICOM Adaptation projects:

Caribbean Planning for Adaptation to Climate Change (CPACC) (1997-2001)

<http://www.caricom.org/jsp/projects/macc project/cpacc.jsp>

“ The goal of the CPACC project was to build capacity in the Caribbean region for the adaptation to climate change impacts, particularly sea level rise.”

Adaptation to Climate Change in the Caribbean (ACCC) (2001 – 2004)

<http://www.caricom.org/jsp/projects/macc project/accc.jsp>

“ This project was designed to sustain activities initiated under CPACC and to address issues of adaptation and capacity building not undertaken by CPACC, thus further built capacity for climate change adaptation in the Caribbean region.”

Mainstreaming Adaptation to Climate (MACC) Project (2004 – 2007)

<http://www.caricom.org/jsp/projects/macc project/macc.jsp>

“ The project’s main objective is to mainstream climate change adaptation strategies into the sustainable development agendas of the small island and low-lying states of CARICOM.”

By country

Official Government of Saint Lucia Climate Change Website

<http://www.climatechange.gov.lc/>

“Find all the latest news on Climate Change developments in St. Lucia and access important reports and other documents.”

Other regions

Asia-Pacific Network on Climate Change

<http://www.ap-net.org/database/library/09.html>

Cities, Seas, and Storms: Managing Change in Pacific Island Economies

<http://web.worldbank.org/WBSITE/EXTERNAL/COUNTRIES/EASTASIAPACIFICEXT/PACIFICISLANDSEXTN/0,,contentMDK:20218394~pagePK:141137~piPK:217854~theSitePK:441883,00.html>

“ This Regional Economic Report explores three major themes influencing Pacific Island economies: Management of the growing Pacific towns, management of the ocean, and adaptation to climate change. In all three themes the report argues for an inclusive institutional framework and for stronger partnerships between Pacific Island governments, traditional organizations and the broader civil society.”

Climate Change Adaptation in Africa (CCAA)

http://www.idrc.ca/en/ev-94424-201-1-DO_TOPIC.html

“aims to improve the capacity of African countries to adapt to climate change in ways that benefit the most vulnerable. Building on existing initiatives and past experience, the CCAA program works to establish a self-sustained skilled body of expertise in Africa to enhance the ability of African countries to adapt.”

Climate Change Impacts and Adaptation in Canada

http://adaptation.nrcan.gc.ca/index_e.php

“Increasing Canada’s resilience to climate change by raising awareness and understanding, as well as by facilitating climate change adaptation decision-making across the country.”

Living with Climate Change in Europe

http://ec.europa.eu/environment/climat/adaptation/index_en.htm

European Commission site on ‘Living with climate change in Europe’. Includes links to the White Paper on adapting to climate change, which presents the framework for adaptation in Europe, as well as maps of future climate conditions and climate impacts.

Adapting to Climate Change - Government of Australia, Department of Climate Change

<http://www.climatechange.gov.au/impacts/index.html>

Tools and support

Adaptation resources

Coastal Climate Adaptation

<http://community.csc.noaa.gov/climateadaptation/>

“Learn What Others are Doing. Share Strategies. Get Basic Information.”

Ecoadapt

<http://www.ecoadapt.org/>

“EcoAdapt is at the center of climate change adaptation innovation. We bring together diverse players in the conservation, policy, science, and development communities to reshape conservation and development in response to rapid climate change.”

UNFCCC: Local Coping Strategies Database

<http://maindb.unfccc.int/public/adaptation/>

“ This database is intended to facilitate the transfer of long-standing coping strategies/mechanisms, knowledge and experience from communities that have had to adapt to specific hazards or climatic conditions to communities that may just be starting to experience such conditions, as a result of climate change.”

Community Based Adaptation Exchange

<http://community.eldis.org/.59b70e3d/>

“ CBA-X is a shared online resource designed to bring together and grow the CBA community. It provides a site for the exchange of up-to-date information about community-based adaptation, including news, events, case-studies, tools, policy resources, and videos.”

Linking Climate Adaptation

<http://www.eldis.org/go/topics/dossiers/climate-change-adaptation>

“This dossier is intended to provide a summary of current thinking on climate adaptation issues with access to relevant and up to date resources and publications for researchers, practitioners, and policy formers. The guide is divided into four sections:

- * An introduction to climate change adaptation
- * Organisations working on climate adaptation issues
- * Documents and publications related to seven themes in climate adaptation
- * Adaptation resources organised by region of focus”

The Adaptation Learning Mechanism

www.adaptationlearning.net

“developing tools and resources to support adaptation practices, integration of climate change risks and adaptation into development policy, planning and operations, and building capacity.”

Assessments of Impacts and Adaptations to Climate Change in Multiple Regions and Sectors

<http://www.aiaccproject.org/aiacc.html>

“ a global initiative developed in collaboration with the UNEP/WMO Intergovernmental Panel on Climate Change (IPCC) and funded by the Global Environment Facility to advance scientific understanding of climate change vulnerabilities and adaptation options in developing countries.”

ClimAdapt

<http://www.climadapt.com/tools.html>

“ A network of environmental organizations that provide innovative climate change adaptation expertise in Canada and internationally.”

Includes toolkits for incorporating climate change and adaptation into a variety of activities, such as land use planning and environmental impact assessments.

Climate-L

<http://www.climate-l.org/>

A “knowledge management project for international negotiations and related activities on climate change run by the International Institute for Sustainable Development.”

Advancing Capacity to Support Climate Change Adaptation

<http://www.acccaproject.org/accca/>

“The ACCCA project brings stakeholders and scientific communities of the developing world together to enable and support effective adaptation decisions to reduce vulnerability to climate change.”

weADAPT

<http://www.weadapt.org/>

Collaborating on Climate Adaptation.

“weADAPT is a collaboration between leading organisations on climate adaptation and includes new and innovative tools and methods, datasets, experience and guidance.”

Integrating Biodiversity into Climate Change Adaptation Planning

<http://adaptation.cbd.int/>

“Web-based Guidance on the Integration of Biodiversity within Adaptation Planning gathers information and tools from a number of relevant partners. Its purpose is to support Parties as they continue to integrate climate change impacts and response activities through their implementation of the Convention on Biological Diversity.”

Includes a very useful database of information on scientific studies and other resources on biodiversity-related climate change adaptation, including case studies of adaptation plans already in place.

Western Hemisphere Migratory Species Initiative Pathway: Projects and Tools

<http://www.eco-index.org/migratory/tools/information> climate.cfm

Tools and resources to address priority migratory species conservation needs.

CRiSTAL: Community-Based Risk Screening Tool – Adaptation and Livelihoods

<http://www.cristaltool.org/>

“CRiSTAL (Community-based Risk Screening Tool – Adaptation and Livelihoods) is a screening tool designed to help project designers and managers integrate risk reduction and climate change adaptation into community-level projects.”

ADAPT (Assessment & Design for Adaptation to Climate Change: A Prototype Tool)

<http://web.worldbank.org/WBSITE/EXTERNAL/TOPICS/ENVIRONMENT/EXTCC/0,,contentMDK:21315054~menuPK:3725076~pagePK:210058~piPK:210062~theSitePK:407864,00.html>

“ This computer-based tool identifies, at the planning and design stage, potential climate risk posed to development projects. At present it screens agriculture and NRM sectors in South Asia and Sub Saharan Africa, but is being extended to include coastal infrastructure and rural transport, as well as other regions.”

UKCIP Adaptation Wizard

http://www.ukcip.org.uk/index.php?Itemid=273&id=147&option=com_content&task=view

“ The Adaptation Wizard is a tool to help you adapt to climate change. It will take you through a 5-step process that will help you to assess your vulnerability to current climate and future climate change, identify options to address your key climate risks, and help you to develop a climate change adaptation strategy.”

USAID Global Climate Change: Adapting to Climate Variability and Change

http://www.usaid.gov/our_work/environment/climate/policies_prog/vulnerability.html

Includes a link to the Adapting to Climate Variability and Change guidance manual.

ISD - The Climate Change and Development Centre (CCDC)

<http://www.ids.ac.uk/climatechange>

“ Pioneering research and knowledge partnerships for development in a changing climate. Founded in 2008, the CCDC drives forward collaborative research and policy analysis, building programmes and delivering high quality knowledge services, teaching and training.”

National Adaptation Programme of Action

<http://www.napa-pana.org/>

Support for NAPA country teams, implementing agencies (UNDP, UNEP and World Bank), vulnerability and adaptation experts, and other partners providing NAPA technical assistance. The purpose of developing a NAPA is “to identify the urgent and immediate needs of a country to adapt to the present threats from climate change.”

Climate Action

<http://www.climateactionprogramme.org/>

“This book and accompanying website will encourage and assist governments and business to lower greenhouse gas emissions, while also informing them how they can adapt to the impacts of climate change. With articles and features by authoritative authors from governments, intergovernmental organizations, civil society and the private sector, the book will include practical ‘Actions’ - steps that companies and governments can take to reduce their carbon footprint.”

United Nations Framework Convention on Climate Change

<http://unfccc.int/adaptation/items/4159.php>

Information on National Adaptation Programs of Action (NAPA), implementing adaptation, the Bali Action plan, community-based adaptation and support.

UNDP Climate Community

<http://www.undpcc.org/>

“This Climate Community site (UNDPCC) presents information on key climate change issues including the economic and policy implications of climate change and analyses of the negotiations. It also features an extensive library with documents in multiple languages and forums to share information and resources. UNDPCC was launched under the UNDP Environment & Energy Group project, Capacity Development for Policy Makers to Address Climate Change.”

Vulnerability assessment resources

The PRECIS Regional Climate Modelling System

<http://precis.metoffice.com/>

“ Developed at the Hadley Centre at the UK Met Office, PRECIS is a regional climate modelling system designed to run on a Linux based PC. PRECIS can be easily applied to any area of the globe to generate detailed climate change projections.”

SERVIR Climate Change Mapping Tool - USAID, NASA, CATHALAC, IAGT

http://www.servir.net/index.php?option=com_frontpage&Itemid=154

“SERVIR is a Regional Visualization and Monitoring System that integrates earth observations (e.g. satellite imagery) and forecast models together with in situ data and knowledge for timely decision-making to benefit society.”

Statistical Downscaling Model 4.2

<https://co-public.lboro.ac.uk/cocwd/SDSM/>

“ DSM is a FREE decision support tool for assessing local climate change impacts using a robust statistical downscaling technique.”

WRI Climate Analysis Indicators Tool

<http://cait.wri.org/>

“ The Climate Analysis Indicators Tool (CAIT) is an information and analysis tool on global climate change developed by the World Resources Institute. CAIT provides a comprehensive and comparable database of greenhouse gas emissions data (including all major sources and sinks) and other climate-relevant indicators. CAIT can be used to analyze a wide range of climate-related data questions and to help support future policy decisions made under the Climate Convention and in other fora.”

Research

Regional

Climate Studies Group, The University of the West Indies at Mona, Jamaica

<http://myspot.mona.uwi.edu/physics/research>

International

Tyndall Centre for Climate Change Research

<http://www.tyndall.ac.uk/>

“ The Tyndall Centre brings together scientists, economists, engineers and social scientists, who together are working to develop sustainable responses to climate change through trans-disciplinary research and dialogue on both a national and international level - not just within the research community, but also with business leaders, policy advisors, the media and the public in general.” Includes research programmes on adaptation and sustainable coasts.

Potsdam Institute for Climate Impact Research

<http://www.pik-potsdam.de/>

“PIK addresses crucial scientific questions in the fields of global change, climate impacts and sustainable development.”

International Research Institute for Climate and Society

<http://portal.iri.columbia.edu/portal/server.pt>

“We use a science-based approach to enhance society's ability to understand, anticipate and manage climate risk in order to improve human welfare.”

IISD Key Publications and Online resources: Climate and Atmosphere

http://www.iisd.ca/publications_resources/climate_atm.htm

WWF is the largest and most experienced independent conservation organization in the world. WWF was founded in 1961 and is known by its panda logo. WWF is supported by more than 5 million people and its global network works in more than 100 countries.

WWF's mission is to stop the degradation of the planet's natural environment and to build a future in which humans live in harmony with nature by:



- conserving the world's biological diversity
- ensuring that the use of renewable natural resources is sustainable
- promoting the reduction of pollution and wasteful consumption

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