



# Advances in Disaster Recovery Toolkit



## Hazard Mapping and Risk Management

- ✓ **FEMA Flood Maps (NFIP):** Flood Insurance Rate Maps (FIRMs) show flood zones, risk levels, and Base Flood Elevations (BFEs). <https://msc.fema.gov>
- ✓ **Hazus:** FEMA's loss estimation software for assessing risks from floods, hurricanes, and earthquakes. <https://www.fema.gov/hazus>
- ✓ **NOAA Digital Coast:** A suite of decision-support tools, including a green infrastructure mapping guide and data on economic impacts of hazards. <https://coast.noaa.gov/digitalcoast/>
- ✓ **NOAA Sea Level Rise Viewer:** Visualizes sea-level rise and its potential impacts on coastal areas. <https://coast.noaa.gov/slr>
- ✓ **USGS Flood Event Viewer:** Displays real-time and historical data from stream gauges, including river stages and flow rates. <https://stn.wim.usgs.gov/fev>

## Climatic, Weather, and Ecological Data

- ✓ **EPA EnviroAtlas:** Over 100 interactive maps and data on ecosystems, water quality, population, and land use. <https://www.epa.gov/enviroatlas>
- ✓ **NatureServe Explorer:** Biodiversity and ecosystem service data to inform habitat protection and restoration. <https://explorer.natureserve.org/pro/Welcome>
- ✓ **NOAA Climate Explorer:** Offers historical and projected climate data, including temperature, precipitation, and extreme weather trends. <https://crt-climate-explorer.nemac.org>
- ✓ **National Hurricane Center (NHC):** Provides forecasts, storm tracking, and data for hurricane preparedness and recovery. <https://www.nhc.noaa.gov>
- ✓ **Southeast Climate Adaptation Science Center (USGS):** Regional climate science and adaptation tools for resilience planning, data from present projects, and resources for tribal communities. <https://secasc.ncsu.edu/resources/>
- ✓ **iNaturalist & Community Science Platforms:** Community-collected data on local flora and fauna and floods. <https://www.inaturalist.org>

## Social Vulnerability Data

- ✓ **CDC Social Vulnerability Index (SVI):** Assesses community vulnerability to disasters based on factors like income, housing, and transportation, and includes data and interactive maps on SVI. <https://www.atsdr.cdc.gov/place-health/php/svi/index.html>
- ✓ **FEMA Resilience Analysis and Planning Tool (RAPT):** Includes over 100 data layers on community resilience indicators, census track data, infrastructure, and hazards. <https://www.fema.gov/about/reports-and-data/resilience-analysis-planning-tool>
- ✓ **Environmental Justice Screening and Mapping Tool (EJSCREEN):** Helps identify areas where vulnerable populations face environmental and health risks. <https://www.epa.gov/ejscreen>

## Communication & Education Tools

- ✓ **Ready.gov Resources:** Templates and materials for disaster communication and preparedness education. <https://www.ready.gov>
- ✓ **U.S. Army Corps of Engineers Flood Risk Communications Toolbox:** Best practices and tutorials for flood and hazard communication. PDF: [https://www.iwr.usace.army.mil/Portals/70/docs/risk/Flood\\_Risk\\_Communications\\_Toolbox.pdf](https://www.iwr.usace.army.mil/Portals/70/docs/risk/Flood_Risk_Communications_Toolbox.pdf)

## Decision-Support Tools & Funding Guidance

- ✓ **Community Rating System (CRS):** FEMA's program to reward floodplain management practices, helping communities reduce flood insurance costs. <https://www.fema.gov/national-flood-insurance-program-community-rating-system>
- ✓ **International Coalition for Sustainable Infrastructure (The Resilience Shift):** Best practices and tools for integrating resilience into recovery planning. <https://sustainability-coalition.org/resilience-toolbox/>
- ✓ **FEMA Building Resilient Infrastructure and Communities (BRIC):** Funding and guidance for community hazard mitigation projects. <https://www.fema.gov/grants/mitigation/building-resilient-infrastructure-communities>
- ✓ **American Flood Coalition:** Policy recommendations and resources for improving flood resilience. <https://floodcoalition.org/resources/>
- ✓ **HUD Community Development Block Grants for Disaster Recovery (CDBG-DR):** Funding for recovery and resilience projects in affected areas. <https://www.hudexchange.info/programs/cdbg-dr>



# State-Specific Resources & Programs

## North Carolina



- ✓ **NC Flood Risk Information System (FRIS):** Provides floodplain maps, flood hazard data, and risk assessments specific to North Carolina. <https://fris.nc.gov/fris>
- ✓ **NC Division of Coastal Management Interactive Map:** Provides data and interactive map on land use, wetlands, shorelines, and other coastal features in NC. <https://ncdenr.maps.arcgis.com/apps/webappviewer/index.html?id=f5e463a929ed430095e0a17ff803e156>
- ✓ **NC Coastal Community Resiliency Guide:** Provides key steps and outlines a process for building resiliency, including relevant tools, resources, and examples. <https://ncdenr.maps.arcgis.com/apps/MapSeries/index.html?appid=e2eb18546943471b93f0264659744a81>
- ✓ **NC Resilient Communities Program:** North Carolina's initiative providing data, technical support, and funding for local resilience planning. <https://www.rebuild.nc.gov/resiliency/resilient-communities-program>
- ✓ **NC Floodplain Mapping Program (NCFMP):** Provides high-resolution flood maps and floodplain data. [flood.nc.gov](http://flood.nc.gov)
- ✓ **NC Sea Grant:** Offers funding opportunities and resources and trainings for marine and coastal environments and education. <https://ncseagrant.ncsu.edu/>
- ✓ **Cape Fear Council of Governments (CFCOG):** Assists with regional resilience planning and recovery coordination in southeastern NC. [capefearcog.org](http://capefearcog.org)
- ✓ **NC Flood Inundation Mapping & Alert Network (FIMAN):** Provides real-time water levels and flood inundation information across NC. <https://fiman.nc.gov/>

## Georgia



- ✓ **GA Emergency Management and Homeland Security Agency (GEMA/HS):** Offers resources and guidance for hazard mitigation and recovery planning. <https://gema.georgia.gov/>
- ✓ **GA Coastal Management Program:** Supports initiatives for shoreline stabilization, flood mitigation, and coastal ecosystem management. [coastalga.dnr.org](http://coastalga.dnr.org)
- ✓ **GA Sea Grant:** Provides tools and resident's guide for coastal hazards and resilience planning. <https://gacoast.uga.edu/outreach/programs/coastal-hazards/>

## South Carolina



- ✓ **SC Department of Natural Resources (SCDNR) Flood Mitigation Program:** Offers floodplain mapping and technical assistance to communities. [dnr.sc.gov/floodmitigation](http://dnr.sc.gov/floodmitigation)
- ✓ **SC Sea Grant Consortium:** Provides resources on coastal resilience, flooding, and stormwater management. [scseagrant.org](http://scseagrant.org)
- ✓ **SC Coastal Information Network:** A coalition of organizations addressing coastal hazards and provides numerous resources on flood risks, beach nourishment, and wetland protection. <https://www.sccoastalinfo.org/search-resources/>
- ✓ **SC Coastal Conservation League:** Focuses on protecting natural flood buffers like marshes and advocating for climate resilience policies. [coastalconservationleague.org](http://coastalconservationleague.org)

## Florida



- ✓ **FL Division of Emergency Management (FDEM):** Offers state-specific resources for flood mitigation and disaster recovery and provides real-time updates on weather events. [floridadisaster.org](http://floridadisaster.org)
- ✓ **FL Sea Grant:** Provides research and outreach programs, funding opportunities, and resources on coastal hazards, sea-level rise, and flood resilience. [flseagrant.org](http://flseagrant.org)
- ✓ **Resilient Florida Program:** Offers webinars on resilience, funding opportunities, updates on local legislation, regarding statewide flooding and sea-level rise planning. <https://floridadep.gov/rcp/resilient-florida-program/content/resilient-florida-program-resources>
- ✓ **South Florida Water Management District (SFWMD):** Offers real-time data and tools for flood control, environmental indicators, wetland restoration, rainfall monitoring, and more. <https://www.sfwmd.gov/science-data>
- ✓ **Miami-Dade County Office of Resilience:** Offers resources on sea-level rise adaptation, projects, and impacts, and focuses on addressing climate impacts and improving flood resilience in South Florida. <https://www.miamidade.gov/global/economy/resilience/home.page>

## Caribbean



- ✓ **Caribbean Disaster Emergency Management Agency (CDEMA):** Coordinates disaster risk management and resilience building across Caribbean nations. [cdema.org](http://cdema.org)
- ✓ **Caribbean Community Climate Change Centre (CCCCC):** Offers decision-making tools for climate resilience like the CCORAL Risk Management Tool and case studies on disaster recovery and resilience efforts. <https://caribbeanclimate.org/tools/>
- ✓ **NOAA Coral Reef Watch for the Caribbean:** Provides data on coral reef health and its connection to coastal flood protection. <https://coralreefwatch.noaa.gov/product/vs/timeseries/caribbean.php>