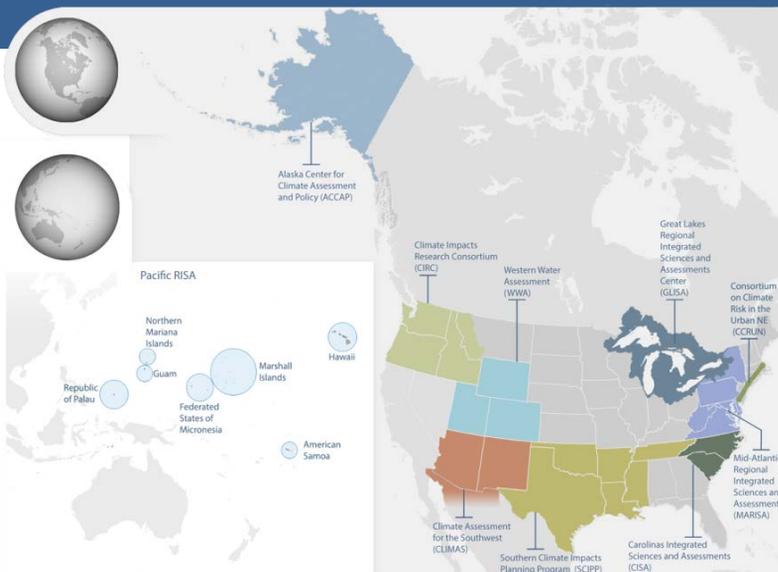


REGIONAL INTEGRATED SCIENCES & ASSESSMENTS (RISA)

Helping regions and communities better prepare and plan for hazards and extreme events for more than 20 years.

In 2016 alone, the United States experienced 15 billion-dollar weather and climate disasters, which resulted in 138 fatalities and cost \$46 billion.

For more than 20 years, the NOAA **Regional Integrated Sciences and Assessments (RISA)** Program has been producing actionable climate research, helping to reduce economic damages that Americans face every year due to droughts, floods, forest fires, vector-borne diseases, and a host of other climate and extreme weather impacts. The **network of ten RISA teams across the country** work hand-in-hand with stakeholders and decision makers in regions across the United States to ensure that research and information is responsive to their needs.



The sustained regional presence of RISA enables teams to effectively support responses to extreme events. In 2012, CCRUN's expertise in coastal inundation informed New York City planning efforts after Hurricane Sandy, WWA researchers aided Colorado after 2013's record flooding, and RISA teams in the Western United States have supported the region during its recent intense drought.



Photo Courtesy: WWA

Research produced by the RISA program has educated, informed, and closely interacted with thousands of decision makers across the nation, helping them build the expertise to better plan and prepare for climate variability and extreme weather events. RISA products are making a difference today, helping communities and individuals improve resilience, enhance growth, and reduce costs in a variety of sectors. RISA is supported by the National Oceanic and Atmospheric Administration's (NOAA) Climate Program Office.



Photo Courtesy: Pacific RISA

Updated: April 2017

Learn more: CPO.NOAA.gov/RISA





HOW IS RISA HELPING COMMUNITIES NEAR ME?

The **Consortium on Climate Risk in the Urban Northeast (CCRUN)** RISA serves millions of individuals in the Boston-NYC-Philadelphia urban corridor. Urban populations and infrastructure are highly vulnerable to the effects of a changing climate, including extreme heat and coastal and inland flooding. The Northeast metropolitan areas are at the vanguard of resilience efforts, in part due to the involvement of CCRUN.

CCRUN assesses and manages climate risks, focusing on adaptation in these complex, densely populated, and highly interconnected urban areas.

CONSORTIUM ON CLIMATE RISK IN THE URBAN NE (CCRUN)



www.ccrun.org

PLANNING FOR NEW YORK CITY IN A POST-SANDY WORLD

When Hurricane Sandy made landfall in 2012, it cost 44 New Yorkers their lives and caused roughly \$19 billion in damages in New York City alone. It serves as a vivid reminder that coastal communities are vulnerable to damage from storms and flooding.



Sea level rise is increasing the frequency and severity of coastal flooding. CCRUN researchers recently found that sea level rise added \$6 billion to Sandy's toll on New York City—affecting 1.4% more people and 11.6% more housing units than would have been impacted without sea level rise. New York City's sea level is rising at almost twice the global average.

Since Sandy, New York City officials have worked with the CCRUN RISA to help create a city that is more prepared for extreme weather and climate events. In 2013, NYC released a comprehensive rebuilding and resiliency plan. CCRUN researchers prepared the scientific basis for this report, published in the 2015 New York City Panel on Climate Change Report, co-led by CCRUN team members. CCRUN is continuing to help New York respond to weather and climate challenges, develop climate resiliency policies and programs, and provide the knowledge base to support them.