

CLIMATE & SOCIETIAL INTERACTIONS

Using climate information to improve resilience and preparedness

Communities, organizations, and businesses are looking to integrate science-based information about climate variability and change into their planning and investments. Extremes in rainfall, drought, coastal flooding, and temperature are affecting multiple sectors of society, with consequences for economies, infrastructure, the environment, and human health.

SCIENCE FOR DECISION MAKING

NOAA's Climate and Societal Interactions (CSI) Division, a vital part of the Climate Program Office, advances research that supports planners and practitioners in understanding and managing risks influenced by changes in climate conditions. CSI invests in research networks that connect and align cutting-edge science with the most urgent needs of stakeholders.

CSI-supported research generates the knowledge, tools, and institutional networks that enhance society's capacity to anticipate and plan for the risks associated with weather and climate. Our focus complements the work of the physical science research and services portfolio across NOAA by using insights from interdisciplinary research to interpret, synthesize, and apply climate data, analysis, and observations.



▲ CSI-supported researchers preparing a table for a community mapping exercise for decision makers in Majuro, Republic of the Marshall Islands.



▲ Heavy precipitation to some locations leads to peaks of increased stormwater runoff. Local water managers are assessing their infrastructure's capacity to accommodate sudden heavy flows and prevent flash flooding.

CSI's mission is to improve resilience and preparedness in diverse socio-economic regions and sectors. Our research advances the nation's understanding of climate-related risks and vulnerabilities across sectors and regions, and the development of tools to foster more informed decision making. Our work supports NOAA's vision to create and sustain enhanced resilience in ecosystems, communities, and economies.

BUILDING CAPACITY AND PARTNERSHIPS

The establishment of partnerships with other agencies and organizations to jointly support our goals is an important element of our work. CSI staff advance knowledge and partnerships to support the mission and objectives of NOAA and numerous other interagency and scientific efforts focused on managing risks related to weather and climate, as well as their implications across socio-economic sectors. In addition, CSI plays a pivotal role in supporting research and development activities for the Coping with Drought initiative of the NOAA-led National Integrated Drought Information System (NIDIS).

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Learn more: CPO.NOAA.gov/CSI



CONNECTING DECISION MAKERS WITH HIGH QUALITY SCIENCE & TOOLS

Programs within NOAA's Climate and Society Interaction Division leverage science from a wide range of sources to provide valuable insight for planning and preparedness, advance the use of local information in analyses and assessments, and build relationships that connect planning for today's challenges with long term resilience.

COASTAL & OCEAN CLIMATE APPLICATIONS



The **Coastal and Ocean Climate Applications (COCA)** program supports interdisciplinary projects to develop and transfer science and information to advance the resilience of coastal communities and coastal and marine ecosystems.

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REGIONAL INTEGRATED SCIENCES & ASSESSMENTS



The **Regional Integrated Sciences and Assessments (RISA)** program supports research teams across the U.S. that conduct innovative, interdisciplinary, stakeholder-driven, and regionally relevant research that informs resource management, planning, and public policy.

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SECTORAL APPLICATIONS RESEARCH



The **Sectoral Applications Research Program (SARP)** addresses the needs of specific stakeholders within key socioeconomic sectors grappling with pressing climate-related issues associated with water resources management, extreme events, and drought.

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INTERNATIONAL RESEARCH & APPLICATIONS



The **International Research and Applications Project (IRAP)** supports international activities to link climate research and assessments to practical risk management, development, and adaptation challenges in several regions throughout the world.

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