

Adaptation Options for States

Jessica Grannis

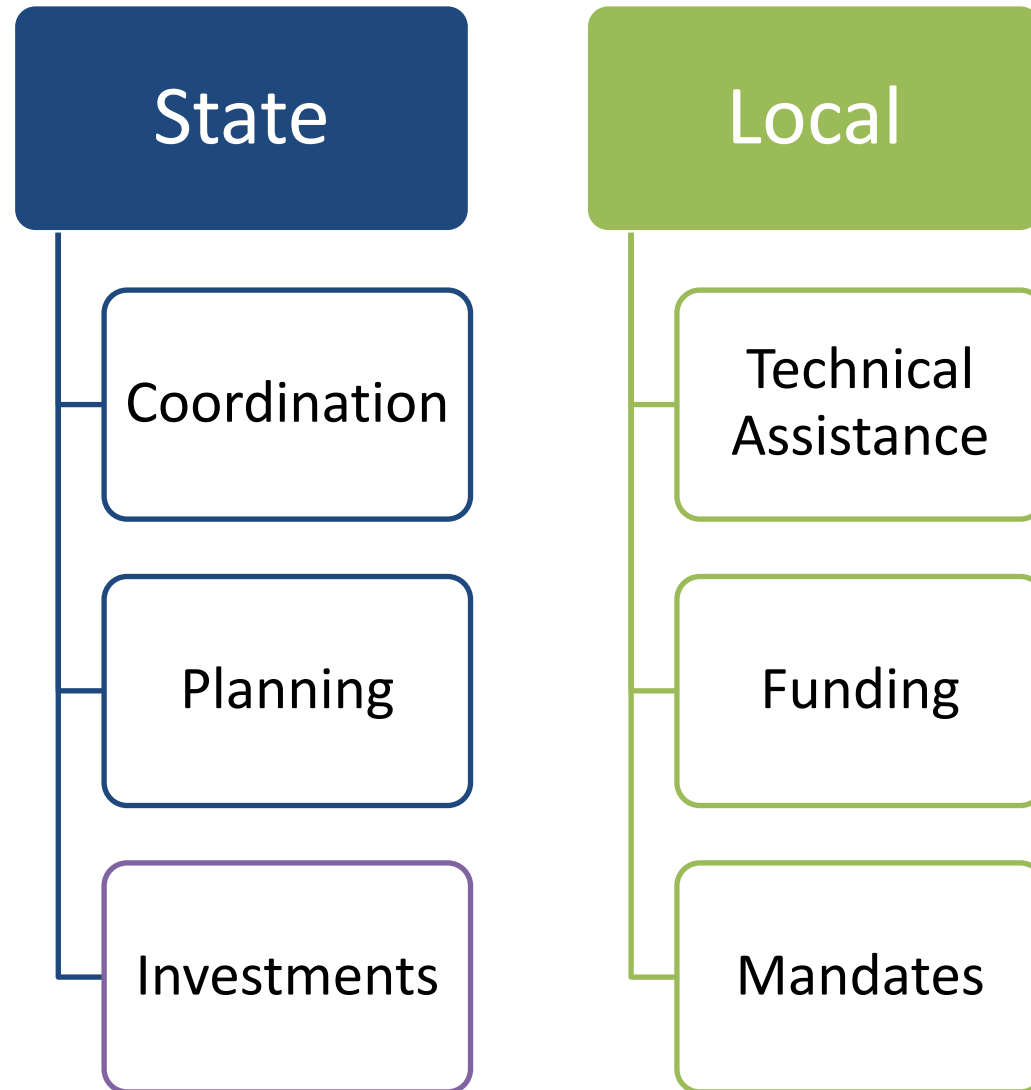
November 1, 2016

GEORGETOWN CLIMATE CENTER

- Convenes and serves as resource to states and localities on climate and energy issues
- Brings together academics and policymakers to improve climate policy
- Informs the development of:
 - Legislation
 - Regulation
 - Transportation policy
 - Adaptation policy



STATE ROLES



STATE PLANNING & PROGRESS

Pennsylvania Climate and Energy Profile

Adapting to Climate Change

Clean Energy and Reducing Carbon Pollution

Overview of Pennsylvania's Climate Change Preparations

This page provides an overview of the steps Pennsylvania is taking to prepare for the impacts of climate change.

The Pennsylvania Climate Change Act of 2008 authorized the Department of Environmental Protection (DEP) to prepare a report recommending mitigation actions that could be deployed to reduce the Commonwealth's contribution of greenhouse gas (GHG) emissions. Although not a requirement of the act, the DEP and the Climate Change Advisory Committee (CCAC) also recognized the need to address adaptation planning because "climate impacts are already occurring and will continue to occur even with lower GHG levels." During the February 27, 2009 meeting of the CCAC, a motion was made and passed with unanimous support that the action plans should include a recommendation to the Governor and the Pennsylvania General Assembly to address climate change adaptation. On March 18, 2010, the CCAC initiated a planning process to develop an adaptation report. Four workgroups were created to develop adaptation recommendations for the state. These workgroups were organized around the following four sectors: infrastructure, public health and safety, natural resources, and tourism and outdoor recreation.

[Read More](#)



[VIEW STATE ADAPTATION PLAN STATUS](#)



[VIEW ALL COMPLETED STATE GOALS](#)

Pennsylvania



[Pennsylvania Climate Adaptation Planning Report: Risks and Practical Recommendations](#)
Finalized: 2011



- 2 out of 87 Goals Completed
- 33 out of 87 Goals in Progress



[SUBMIT AN UPDATE ABOUT THIS STATE'S PROGRESS](#)



[RECEIVE EMAILS ABOUT THIS STATE'S PROGRESS](#)

- Create Working Groups to include key stakeholders or create a citizen advisory council
- Establish research priorities and coordinate with academic researchers
- Ensure the resilience of state investments
- Consider climate change in all state plans

STATE

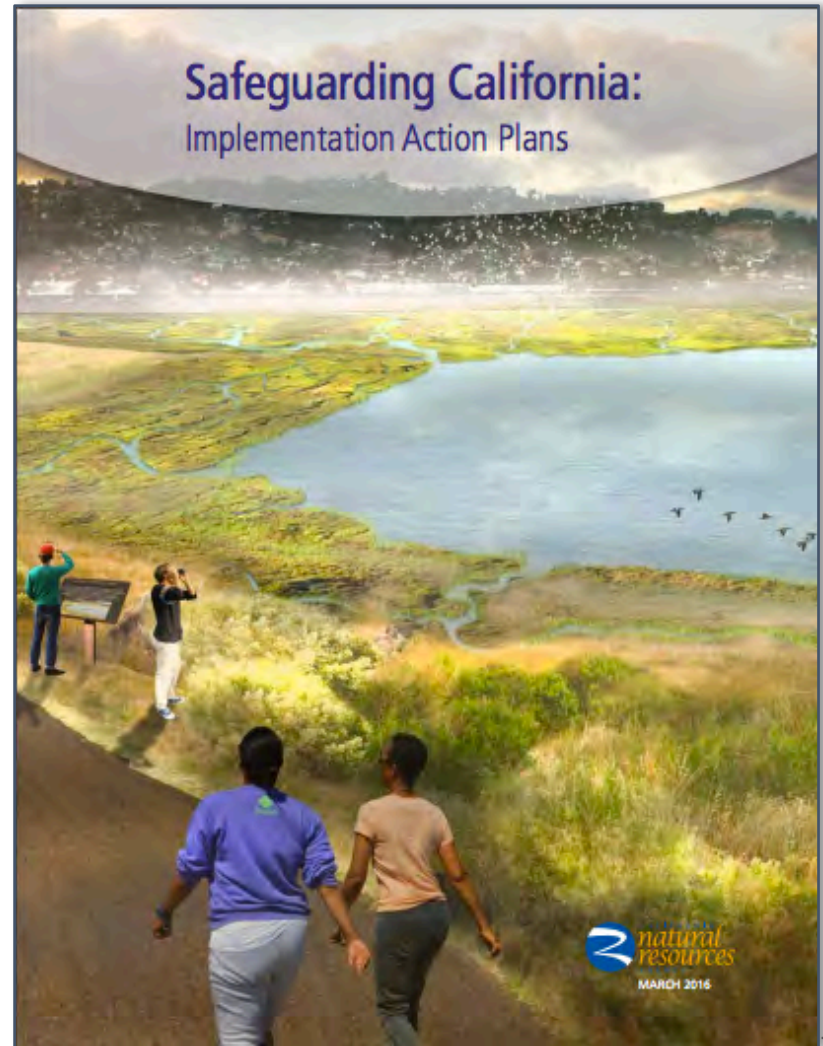
NEW HAMPSHIRE | COASTAL RISK & HAZARDS COMMISSION

Coordination



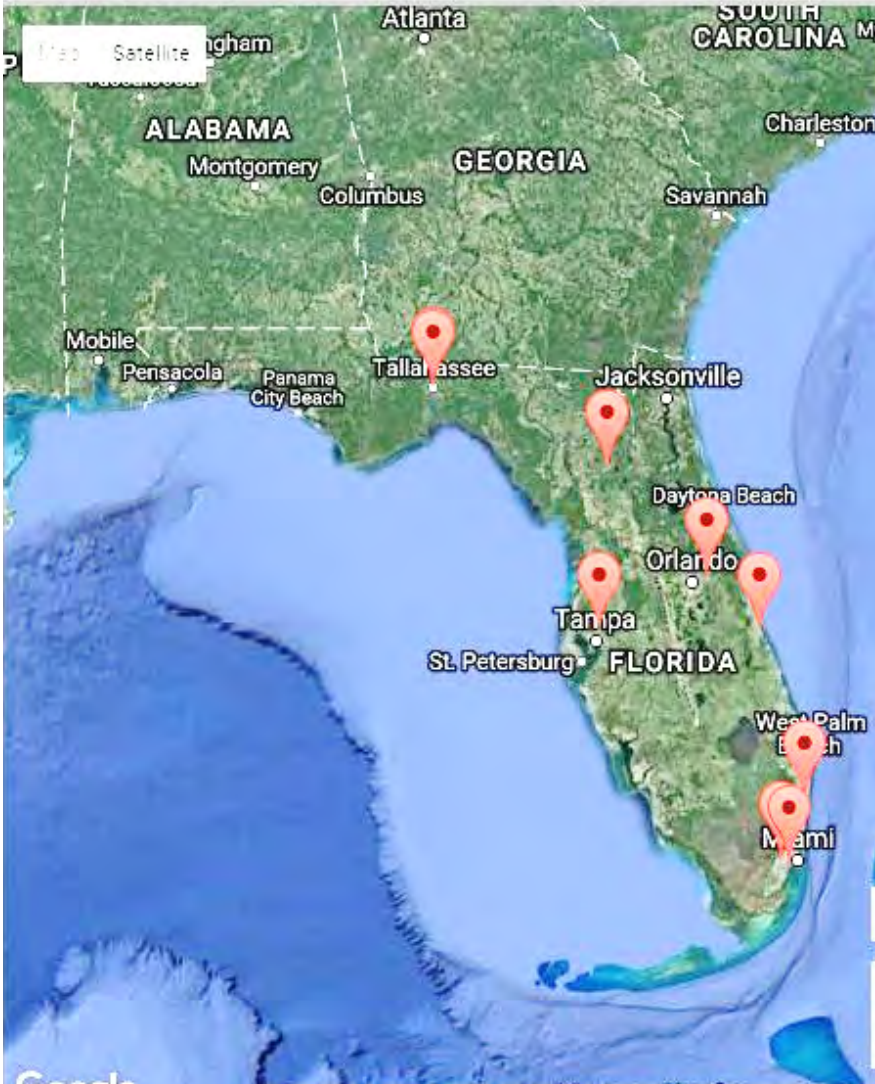
CALIFORNIA | CLIMATE ACTION TEAMS

Coordination



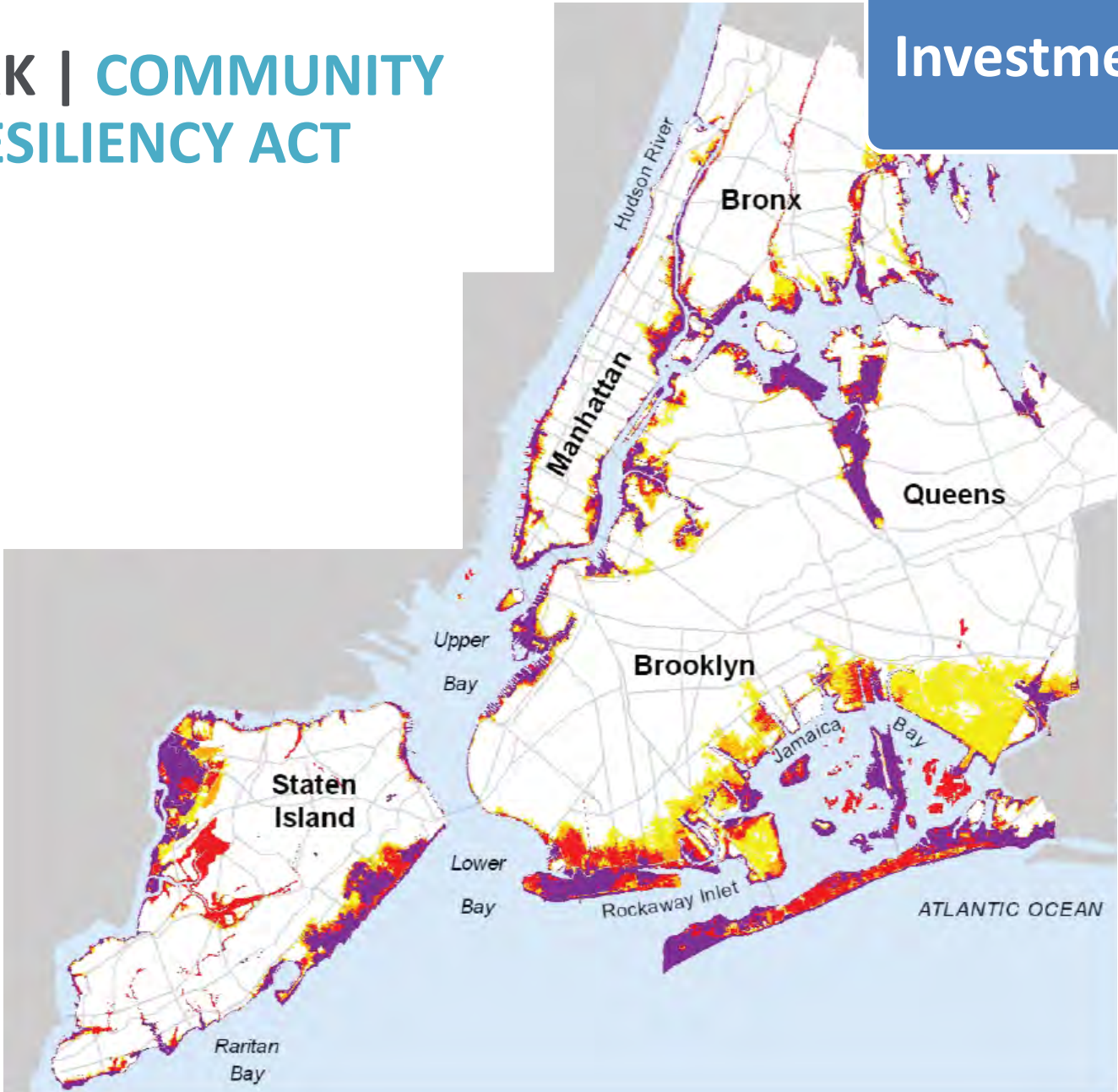
SOUTHEAST FLORIDA | CLIMATE INSTITUTE

Coordination



NEW YORK | COMMUNITY RISK & RESILIENCY ACT

Investments



CALIFORNIA | ALL HAZARD MITIGATION PLAN

Planning

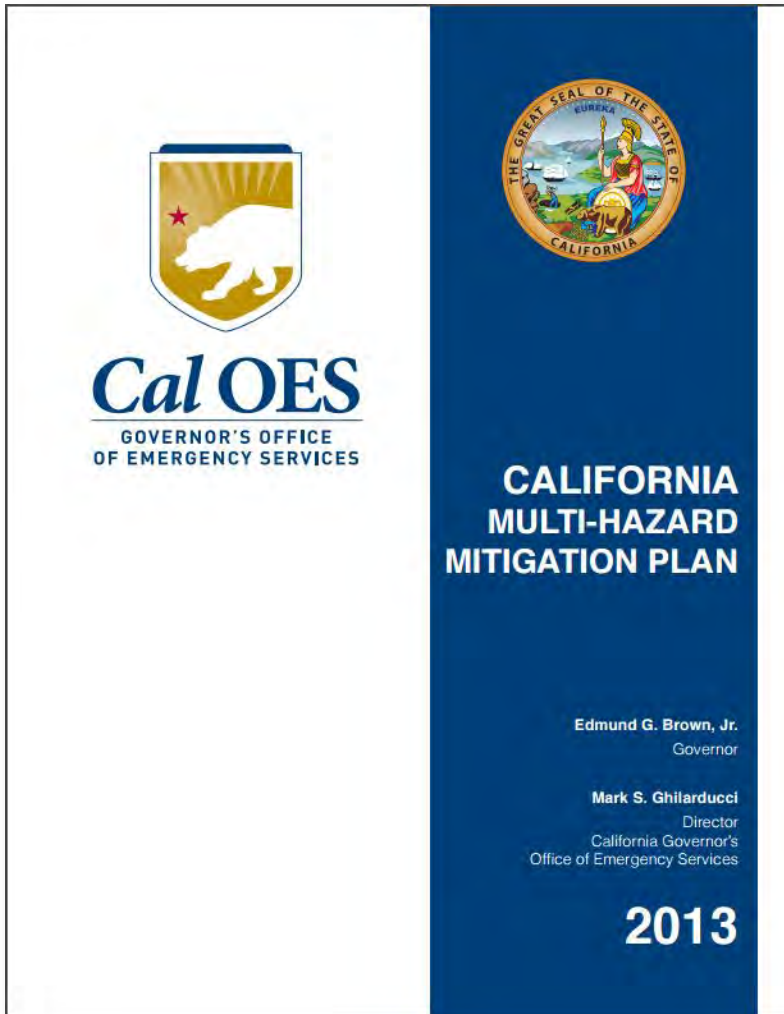
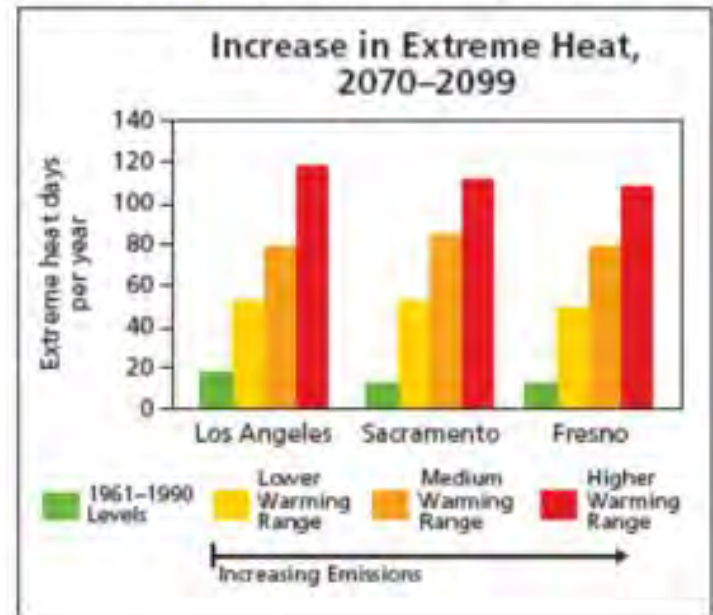


Chart 6.D: Increase in Extreme Heat, 2070-2099



- Use state funding programs as carrot to encourage local adaptation
- Develop new funding streams to support local adaptation
- Identify ways to fund or finance private adaptation
- Expand scope of data, tools, and technical support provided to communities
- Encourage or require local adaptation planning

LOCAL

MARYLAND |
COMMUNITY
RESILIENCE GRANTS

Funding

Maryland's *Community Resiliency* Grants

2016 REQUEST FOR PROPOSALS

Maryland's Community Resiliency Grants provide financial and technical assistance to local governments to help address the impacts of hazards, including localized flooding, storm events and sea level rise.

MARYLAND
DEPARTMENT OF
NATURAL RESOURCES

NOAA

UNIVERSITY OF MARYLAND SYSTEM

Chesapeake Coastal Service

HAWAII | HOTEL TAX

Funding



6:00



ROCKY POINT
NORTH SHORE

CONNECTICUT | SHORE UP PROGRAM

Funding



NORTH CAROLINA | FLOOD RISK INFORMATION SYSTEM

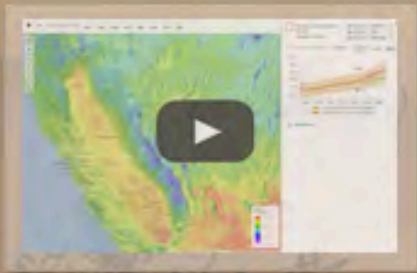
Technical Support

Building Damages \$\$\$→



Video Tour

VIEW THE DIFFERENT TOOLS AND DATA AVAILABLE IN CAL-ADAPT






Explore Climate Tools

INTERACTIVE MAPS & CHARTS

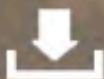


About Cal-Adapt

-  WHAT'S NEW?
-  WHAT'S TO COME?
-  FAQs

Access Data

ACCESS THE RAW DATA USED IN CAL-ADAPT



Select and download data in a variety of tabular and GIS formats

Resources

INFORMATION, ARTICLES & LINKS





Find out more about how climate change in California is relevant to your community

Community

PARTICIPATE IN COMMUNITY BASED TOOLS AND ACTIVITIES



Find out how you can share your thoughts and findings, communicate with experts, and help to collect new data

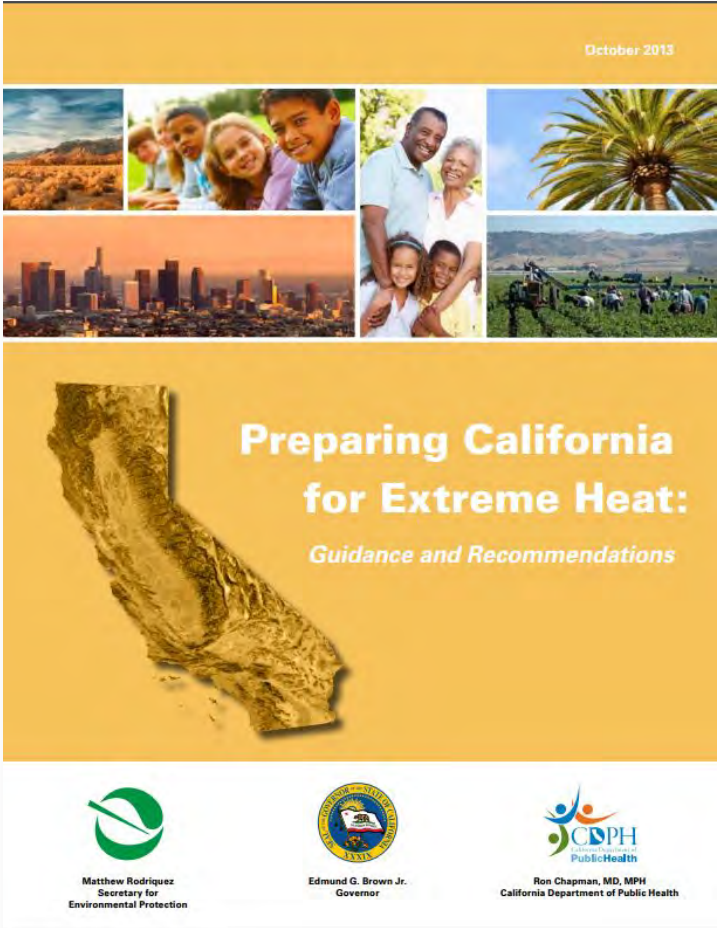
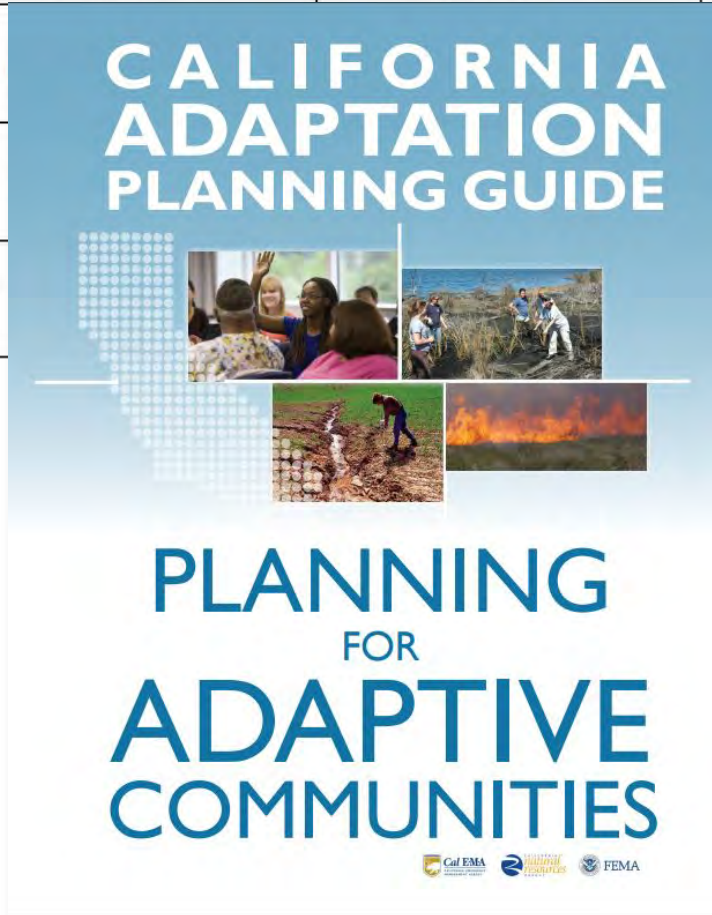
 Tweet 273  Like 451

CALIFORNIA | ADAPTATION PLANNING GUIDES

Technical
Support

Table 1. Sea-Level Rise Projections using 2000 as the Baseline

Time Period	North of Cape Mendocino ³	South of Cape Mendocino
2000 - 2030		
2000 - 2050		
2000 - 2100		



FLORIDA | ADAPTATION ACTION AREAS

Mandates

ADAPTATION AREA 4

- Critical access route
- Adapt infrastructure while minimizing impacts to natural resources

ADAPTATION AREA 5

- Redevelopment
- Corridor design

ADAPTATION AREA 6

- Residential areas slated for econ. revitalization

ADAPTATION AREA 3

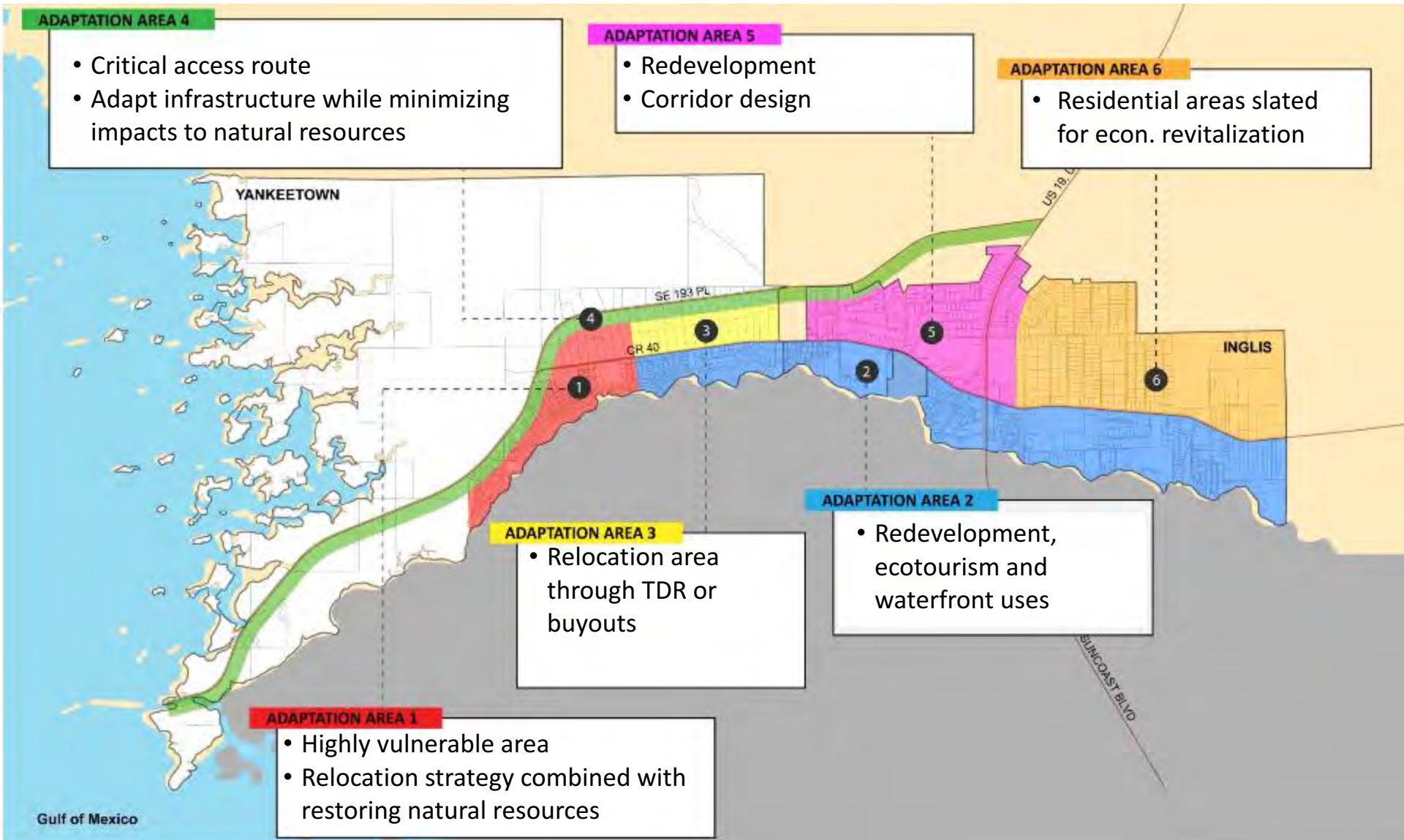
- Relocation area through TDR or buyouts

ADAPTATION AREA 2

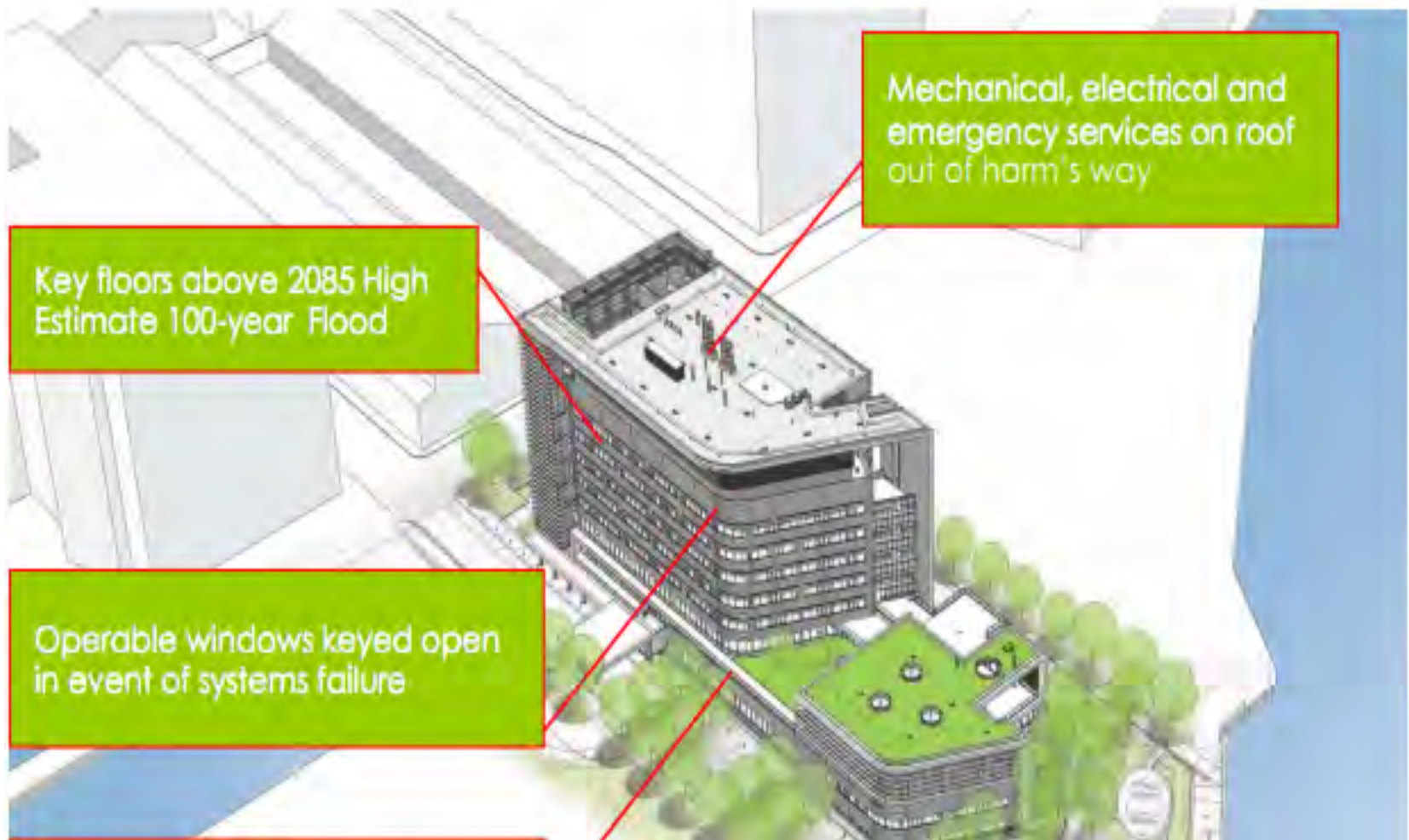
- Redevelopment, ecotourism and waterfront uses

ADAPTATION AREA 1

- Highly vulnerable area
- Relocation strategy combined with restoring natural resources



BOSTON | ADAPTATION CHECKLIST



Credit: Perkins + Will Analytical diagrams P+W / Partners HealthCare

CHARLOTTE-MECKLENBURG | BUYOUTS



Credit: Nancy Pierce; PlanCharlotte, UNC

BALTIMORE | VACANTS TO VALUE



Thank You!

Jessica Grannis

grannis@law.Georgetown.edu

202/661-6594

www.adaptationclearinghouse.org

www.georgetownclimate.org