



Coastal Resilience Assessment

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NATIONAL HEADQUARTERS

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BACKGROUND

The National Fish and Wildlife Foundation (NFWF) is committed to supporting programs and projects that improve resilience by reducing communities' vulnerability to coastal storms, sea-level rise, and flooding events by strengthening natural ecosystems and the fish and wildlife habitat they provide.

COASTAL RESILIENCE ASSESSMENTS

The National Oceanic and Atmospheric Administration (NOAA) has provided funding for NFWF to assess regional resilience for U.S. coastlines as well as eight targeted watersheds. In partnership with NOAA and in collaboration with the U.S. Army Corps of Engineers (USACE), NFWF commissioned the National Environmental Modeling and Analysis Center (NEMAC) at University of North Carolina at Asheville and NatureServe, a non-profit conservation science organization, to conduct the resilience analyses. This assessment builds on the evaluation concepts developed by NFWF in the wake of Hurricane Sandy.

OBJECTIVES

1. Create contiguous and standardized datasets for U.S. coastlines and eight targeted watersheds* to support coastal resilience assessment and planning.
2. Analyze the impacts of potential coastal *and* inland storm events.
3. Identify areas for restoration, installation of natural and nature-based features, and other projects that achieve maximum benefit for **human community resilience, fish and wildlife populations, and their habitats.**
4. Identify and recommend specific strategies, conservation actions, and monitoring in targeted watersheds.

PRODUCTS

Regional and Watershed Assessments include:

- **Community Exposure Index map** that provides fine-scale data on where communities, people, and infrastructure are at the highest risk of flooding
- **Critical Fish and Wildlife Populations and Habitats map**
- **Resiliency Hubs map** that identifies large swaths of connected habitat that protects coastal communities from the impacts of storms as well as support fish and wildlife
- **Project Portfolio** for each targeted watershed that identifies resilience projects, including recommendations for the highest priority and most impactful projects

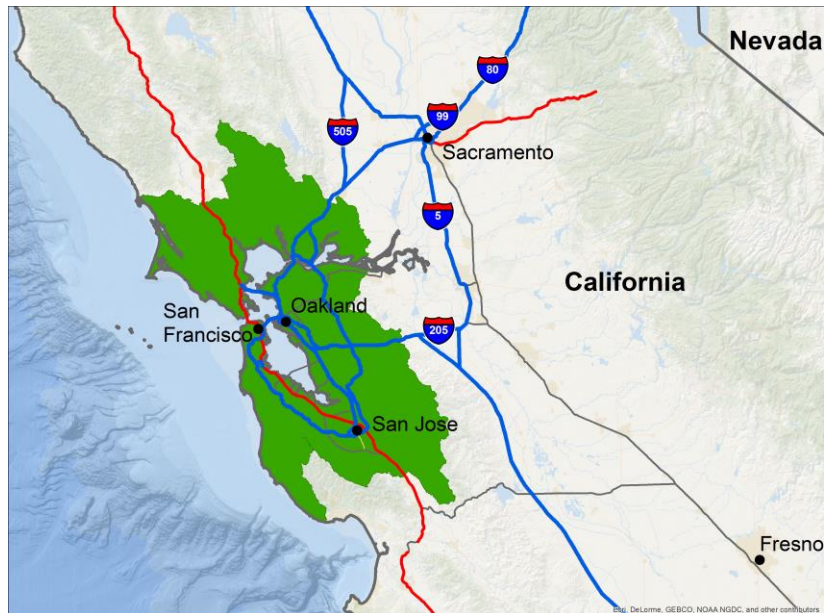
These analyses prioritize sites for large-scale natural and nature-based resilience project implementation that enhance or build on the existing Resiliency Hubs and will result in the maximum benefit for both human communities *and* fish and wildlife habitats.

*TARGETED WATERSHEDS

- Cape Fear (NC)
- Savannah River (GA/SC)
- Narragansett Bay and Coastal RI (RI/MA)
- Charleston Harbor (SC)
- Mid-coast Maine (ME)
- Delaware Bay (DE/NJ/PA)
- St. Johns River (FL)
- San Francisco Bay (CA)

WATERSHED ASSESSMENT OBJECTIVES

1. Engage stakeholders in the watershed to provide project input to the assessment, data, and identification of resilience projects.
2. Develop a GIS decision support system aggregating regional and local data on species, habitats, and natural features.
3. Conduct GIS assessments of current fish and wildlife condition and potential climate vulnerability.
4. Develop a portfolio of resilience projects analyzed for their benefit to human assets and natural resources.
5. Provide assessment results in a report and watershed decision support system to inform resilience planning and project development.



PROCESS

1. Conduct an introductory webinar for interested stakeholders.
2. Host watershed workshops in the summer of 2017 with stakeholders, providing two opportunities to participate.
3. Conduct habitat assessment for the watershed using regional and local data.
4. Compile information on candidate resilience projects, conduct site visits, and characterize them per established criteria.
5. Present draft findings to stakeholders for feedback.
6. Present final products by webinar to stakeholders in the fall of 2017.

WHY SHOULD YOU PARTICIPATE?

- Provide input, information, and data while gaining greater understanding of vulnerability in the watershed.
- Provide information on needed resilience project(s) in the watershed.
- Receive an ArcGIS desktop coastal resiliency decision support tool and initial training



HOW TO GET INVOLVED

Sign up for the email list to stay informed about the project.

Respond to your invitation or contact Sam Veloz at sveloz@pointblue.org, 707-781-2555 x308 so you can:

- Participate in the introductory webinar
- Participate in a 1-day workshop
- Provide spatial data and information on relevant resilience projects