National Coastal Resilience Fund

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FUNDING PARTNERS

- NOAA
- U.S. Department of Defense
- Shell USA
- TransRe
- Oxy
- Bezos Earth Fund

ABOUT NFWF

Chartered by Congress in 1984, the National Fish and Wildlife Foundation (NFWF) protects and restores the nation's fish, wildlife, plants and habitats. Working with federal, corporate and individual partners, NFWF has funded more than 6,000 organizations and generated a total conservation impact of $7.4 billion.

Learn more at **www.nfwf.org**

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Coastal marsh, Louisiana

OVERVIEW

In November 2022, the National Fish and Wildlife Foundation (NFWF) and NOAA, joined by the Department of Defense and private sector funding partners Shell USA, TransRe, Oxy and the Bezos Earth Fund announced the award of 88 new grants totaling more than $136 million through the 2022 National Coastal Resilience Fund. The 88 awards, using funding from the Bipartisan Infrastructure Law and other sources, generated over $94 million in matching contributions from the grantees, providing a total conservation impact of more than $230 million. In total, through grants authorized in August and November, the NCRF awarded $144 million in funding to support 96 coastal resilience projects in 29 coastal states and U.S. territories in 2022.

Established in 2018, the National Coastal Resilience Fund (NCRF) invests in conservation projects that restore or expand natural features such as coastal marshes and wetlands, dune and beach systems, oyster and coral reefs, coastal forests and rivers, floodplains, and barrier islands that minimize the impacts of storms, sea-level rise and other coastal hazards on nearby communities. The NCRF funds across four project categories: 1) community capacity building and planning; 2) project site assessment and preliminary design; 3) final project design and permitting; and 4) restoration implementation.

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Bald eagles in the Chilkat Bald Eagle Preserve

ALASKA

Building Capacity of Alaska Native Tribes to Implement Nature-Based Coastal Resilience Strategies
Grantee: Alaska Conservation Foundation
Grant Amount:. $1,431,800
Total Project Amount:. $1,431,800
Identify coastal resilience challenges in remote communities and identify nature-based solutions through regional workshops. Project will engage Alaska Native communities and result in a written synthesis of nature-based resilience strategies and projects that will benefit Native villages in Alaska.

Community Decision-Making and Innovation to Advance Nature-Based Resiliency in the Asqinaq (AK)
Grantee: Alaska Wildlife Alliance
Grant Amount:. $250,000
Matching Funds:. $231,600
Total Project Amount:. $481,600
Engage community members through onsite workshops and listening sessions to identify potential nature-based solutions that will address flood vulnerabilities in the Asqinaq, or Hooper Bay region of Alaska. Project will employ Alaska Native interns to facilitate information-sharing between Tribal partners and local academic institutions to develop a Climate Vulnerability Assessment.

Integrating Traditional Knowledge into the Nature-Based Point Hope Shoreline Final Design (AK)
Grantee: City of Point Hope
Grant Amount:. $934,600
Matching Funds:. $30,000
Total Project Amount:. $964,600
Design and permit a dynamic revetment and reinforced dune system long the Chukchi Sea shoreline of Point Hope, Alaska. Project will integrate traditional ecological knowledge into the design in order to preserve polar bear and migratory bird species habitat, culturally important sites, and the village's subsistence lifestyle.

Restoration and Protection of Coastal Wetlands in Village of Kotlik (AK)
Grantee: Village of Kotlik
Grant Amount:. $3,956,300
Matching Funds:. $1,474,800
Total Project Amount:. $5,431,100
Restore coastal wetlands in the Yukon-Kuskokwim Delta to protect the rearing habitat of 44 species of fish and 60 species of bird. Project will avert contamination of the Kotlik and Little Kotlik rivers, prevent structures from eroding into the river, and protect the Village of Kotlik's Yupik Alaska Native population's right to cultural practices and subsistence lifestyles.

Stabilizing Chilkat River Bank and Restoring Chinook Salmon Habitat in Chilkat Indian Village (AK)
Grantee: Chilkat Indian Village (Klukwan)
Grant Amount:. $669,600
Matching Funds:. $5,000
Total Project Amount:. $674,600
Restore Chinook salmon spawning habitat that was lost due to river flooding and bank erosion in Klukwan. Project will protect important cultural buildings and sacred sites of the Jilkaat Kwaan, a federally recognized Tribe who relies on the health of the river and its salmon.

CARIBBEAN

Restoring Mangroves in Jobos Bay to Enhance Local Community Protection from Coastal Hazards (PR)
Grantee: The Ocean Foundation
Grant Amount:. $1,232,100
Matching Funds:. $1,320,000
Total Project Amount:. $2,552,100
Restore and rehabilitate 695 acres of mangrove forests within the Jobos Bay National Estuarine Research Reserve. Project will enhance natural mangrove regeneration to improve protection from hurricane-related wind and storm surge impacts.

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Puerto Rico

Building Coastal Resilience Community Capacity in Playa de Ponce and the Bay of Ponce (PR)
Grantee: Centro para la Reconstrucción del Hábitat
Grant Amount:. $275,000
Matching Funds:. $158,800
Total Project Amount:. $433,800
Build community capacity to evaluate the viability of nature-based solutions to improve social-ecological resilience in Playa de Ponce. Project will conduct wave and climate modeling, need assessments, and identify regulatory frameworks relevant to coastal restoration projects such as mangrove reforestation and living shorelines to protect critical infrastructure and vulnerable populations.

GREAT LAKES

Advancing Priority Coastal Resilience Projects in Great Lakes Shoreline Communities (MI, WI)
Grantee: Great Lakes and St. Lawrence Cities Initiative
Grant Amount:. $1,000,000
Matching Funds:. $105,000
Total Project Amount:. $1,105,000
Advance projects to strengthen coastal resilience utilizing nature-based solutions to restore habitat in shoreline communities. Project will advance five projects through site assessment and 30 percent designs while expanding stakeholder engagement and showcasing demonstration sites to cities across the region.

Designing Wetland Habitat Structures to Revitalize Milwaukee's Harbor (WI)
Grantee: Harbor District
Grant Amount:. $455,800
Matching Funds:. $45,000
Total Project Amount:. $500,800
Develop preliminary designs for the Milwaukee Harbor breakwater system to enhance wetland habitat and protect critical lakeside infrastructure. Project will assess the site's conditions through data collection and surveys and produce preliminary engineering plans for layered habitat structures that create a self-sustaining ecosystem to reduce wave energy and storm impacts.

Engaging Dugway Brook Communities in Designing Stream and Wetland Restoration (OH)
Grantee: Chagrin River Watershed Partners
Grant Amount:. $500,000
Matching Funds:. $577,700
Total Project Amount:. $1,077,700
Assess and restore 2,000 feet of degraded stream watershed and 1.5 acres of coastal wetlands, rehabilitate 2,600 feet of culverted stream and create nine acres of riparian buffer. Project will, once implemented, provide habitat for fish and waterfowl, and reduce flood risk.

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Final Design of Saginaw Bay Habitat and Sediment Transport Reef System (MI)
Grantee: Michigan Department of Natural Resources
Grant Amount:.....$125,000
Matching Funds:.....$40,000
Total Project Amount:.....$165,000
Complete final design and permitting for reef habitat restoration system in near-shore areas of Saginaw Bay. Project will, once implemented, support three-reef system designs to reduce impacts of coastal flooding.

Improving Ecosystem Resiliency of Chicago's Shoreline (IL)
Grantee: Chicago Park District
Grant Amount:.....$500,000
Total Project Amount:.....$500,000
Develop a plan that identifies ecosystem restoration strategies to improve resiliency of Chicago's Lake Michigan shoreline. Project will engage with public stakeholders to identify priority projects that enhance aquatic ecosystems and build upon coastal resiliency initiatives to protect shoreline infrastructure.

Great egret in Louisiana

Resilient Shoreline Restoration at Ralph C. Wilson Jr. Centennial Park (NY)
Grantee: City of Buffalo
Grant Amount:.....$4,500,000
Matching Funds:.....$3,000,000
Total Project Amount:.....$7,500,000
Soften and restore hardened shoreline and create coastal habitat along Buffalo's Lake Erie shoreline. Project will improve habitat and ecosystem functions to reduce impacts of flooding and erosion and will protect park and residential infrastructure.

GULF

Bayou Bienvenue Central Wetlands Restoration Preliminary Design (LA)
Grantee: City of New Orleans
Grant Amount:.....$888,800
Matching Funds:.....$48,800
Total Project Amount:.....$937,600
Develop preliminary designs to restore Bayou Bienvenue wetlands through marsh terraces, native vegetation planting, and a dredged channel to restore hydrologic patterns. Project will coordinate stakeholder engagement and land records research throughout the planning process.

Comprehensive Shoreline Management Plans for Coastal Alabama (AL)
Grantee: Marine Environmental Sciences Consortium/ Dauphin Island Sea Lab
Grant Amount:.....$575,000
Matching Funds:.....$575,000
Total Project Amount:.....$1,150,000
Create a comprehensive shoreline management plan that will serve as a tool to evaluate, plan, and implement resilience management strategies. Project will provide guidance to waterfront property managers, local government agencies, and natural resource managers on strategies to promote nature-based shoreline solutions.

Constructing Marsh Terraces in Upper Barataria Basin of Jefferson Parish (LA)
Grantee: Jefferson Parish Coastal Management
Grant Amount:.....$2,489,500
Matching Funds:.....$155,500
Total Project Amount:.....$2,645,000
Restore 450 acres of former brackish marsh habitat by constructing 33,000 linear feet of marsh terraces from on-site material and stabilized with native marsh vegetation. Project will employ terrace platforms to capture sediments, protect critical habitat from wind and wave erosion and increase resiliency to coastal storms.

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Designing Marsh Rehabilitation Plans on Fifi Island (LA)
Grantee: Grand Isle Independent Levee District
Grant Amount:.....$614,000
Total Project Amount:.....$614,000
Create preliminary designs to nourish up to 371 acres of marsh protected by rock dikes on Fifi Island. Project will enhance habitat for fish and threatened birds including the black rail and seaside sparrow, and mitigate wave energy during storms on Grand Isle.

Developing Final Designs to Repair the Keith Lake Fish Pass Baffle (TX)
Grantee: Ducks Unlimited
Grant Amount:.....$345,000
Total Project Amount:.....$345,000
Conduct field topographic and bathymetric surveys, develop final construction and cost estimate plans, and obtain necessary regulatory permits to repair Keith Lake Fish Pass Baffle near Sabine Pass, Texas. Project will, once implemented, maintain healthy vegetation in the Salt Bayou Watershed and provide a natural storm buffer for critical infrastructure.

East Barataria Basin Marsh Terracing to Enhance Community Resilience (LA)
Grantee: Ducks Unlimited
Grant Amount:.....$4,805,500
Matching Funds:.....$300,000
Total Project Amount:.....$5,105,500
Construct earthen marsh terraces in open water using on-site dredged material and vegetative planting to establish 80 acres of emergent marsh habitat to benefit waterfowl, shorebirds and seabirds. Project will create terraces to enhance submerged aquatic vegetation growth and water quality, provide tidal flats and reduce impacts of storm surge and erosion.

Enhancing Riparian Ecosystems with Nature-Based Infrastructure to Improve Coastal Resilience (TX)
Grantee: Houston Wilderness
Grant Amount:.....$1,141,500
Matching Funds:.....$943,500
Total Project Amount:.....$2,085,000
Implement green stormwater infrastructure to revitalize riparian corridors that lead to Galveston Bay and the Gulf of Mexico. Project will select 17 properties that were voluntarily bought out with hazard mitigation funding to implement restoration, including planting native trees, installing bioswales and rain gardens that will improve water quality, enhance habitat, and mitigate flood risk for at-risk communities.

Grassroots Strategies to Create a Coastal Resilience Plan for Marginalized Communities (TX)
Grantee: Community In-Power and Development Association
Grant Amount:.....$480,800
Matching Funds:.....$181,100
Total Project Amount:.....$661,900
Develop 10 preliminary designs for wetland restoration, rainwater harvesting parks, and large-scale tree planting projects in West Port Arthur, Texas. Project will engage communities, city governments, and nonprofit organizations to advance projects identified through a comprehensive coastal resilience plan that will enhance habitat and water quality in historically marginalized communities.

Implementing a Living Shoreline along Magazine Point at Naval Air Station Pensacola (FL)
Grantee: Escambia County
Grant Amount:.....$10,926,000
Total Project Amount:.....$10,926,000
Construct a large-scale living shoreline along exposed portions of Naval Air Station in Pensacola Bay to enhance submerged aquatic vegetation habitat, saltmarsh, oyster reefs, coastal grasslands and dunes. Project will recover important coastal habitats and enhance community resiliency by protecting critical naval infrastructure, stabilizing erodible shorelines and absorbing impact from storms.

Living Shoreline Restoration in Back Bay to Enhance Community and Military Resilience (MS)
Grantee: Mississippi State University
Grant Amount:.....$6,477,600
Matching Funds:.....$861,100
Total Project Amount:.....$7,338,700
Construct a 2.5-mile living shoreline using marsh sill, fill, native planting and segmented breakwaters in the Back Bay that includes shorelines of Keesler Air Force Base, the Veterans Administration facility and Biloxi's Hiller Park. Project will restore habitat and reduce wave energy and erosion.

Mitigating Flood Risk on the Mississippi Coast Through Equity Based Stakeholder Engagement
Grantee: University of Southern Mississippi
Grant Amount:.....$294,400
Matching Funds:.....$38,400
Total Project Amount:.....$332,800
Identify nature-based solutions such as living shorelines and rainwater runoff mitigation techniques to improve flood protection and enhance wildlife habitat in Moss Point, Mississippi. Project will facilitate a community-partnership approach by engaging researchers, community leaders and residents in mapping and hydrological modeling as well as surveys, site visits and outreach activities to co-produce assessments and prioritize nature-based solutions for the community.

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Largemouth bass

Resident-Led Resilience Planning in North Gulfport and Surrounding Neighborhoods (MS)
Grantee: Education, Economics, Environmental, Climate and Health Organization (EEECHO)
Grant Amount:.....$345,600
Matching Funds:.....$245,000
Total Project Amount:.....$590,600
Create a resilience plan for 10 communities in North Gulfport to reduce impacts of coastal hazards and benefit bluegill, largemouth bass, pickerel, shellfish, and migratory bird habitat. Project will develop a model of ecological and wildlife restoration through community engagement to help residents make informed decisions about nature-based coastal resilience projects to prioritize for implementation.

Restoring Beach and Dune System at the East End of Dauphin Island (AL)
Grantee: Town of Dauphin Island
Grant Amount:.....$5,000,000
Matching Funds:.....$26,065,700
Total Project Amount:.....$31,065,700
Restore 1.5 miles of shoreline and 88 acres of beach and dune habitat to benefit seabirds, shorebirds and sea turtles. Project will restore the growth of coastal dune systems by employing beach nourishment techniques to provide habitat and increase resiliency to coastal hazards.

Restoring Dunes to Protect the City of South Padre Island from Storm Surge and Sea-Level Rise (TX)
Grantee: The City of South Padre Island
Grant Amount:.....$200,000
Matching Funds:.....$100,000
Total Project Amount:.....$300,000
Restore a mile of dune systems through sand fencing and native vegetation plantings on South Padre Island. Project will rebuild beach shoreline to prevent impacts of coastal erosion.

MID-ATLANTIC

Advancing Oyster Restoration with Shellfish Growers in New England, Mid-Atlantic and West Coast (CA, MA, MD, NH, NJ, NY, WA)
Grantee: The Nature Conservancy
Grant Amount:.....$2,999,500
Matching Funds:.....$1,479,300
Total Project Amount:.....$4,478,800
Deploy 2.5 million adult, diploid oysters grown by farmers to recruitment limited restoration sites throughout New England, Mid-Atlantic and West Coast regions to enhance 29.5 acres of oyster reefs. Project will improve water quality, rebuild marine habitat, advance shoreline protection, and provide economic benefits to coastal communities.

Building Capacity for Tidal Marsh and Sand Island Restoration on Maryland's Eastern Shore
Grantee: National Audubon Society
Grant Amount:.....$416,800
Matching Funds:.....$55,000
Total Project Amount:.....$471,800
Create restoration and resilience plans for tidal marsh habitat across three counties of Maryland's Eastern Shore. Project will yield a sequenced pipeline of restoration projects that, when implemented, will restore thousands of acres of tidal marsh to benefit saltmarsh sparrow and other obligate birds, and improve community resilience.

Building Chickahominy Tribal Community Capacity to Create a Coastal Resilience Plan (VA)
Grantee: Chickahominy Indian Tribe
Grant Amount:.....$350,100
Matching Funds:.....$40,600
Total Project Amount:.....$390,700
Engage the Chickahominy Tribal Community through GIS training, water quality and shoreline risk assessments to identify areas along the James and Chickahominy rivers most impacted by sea-level rise. Project will facilitate development of a strategic plan to address coastal resilience adaptation goals and monitoring systems based on impacts identified.

Maple Dam Road at Blackwater National Wildlife Refuge | Credit: Eric Liner / Cornell Lab of Ornithology

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Little blue heron

Coastal Resilience Planning in Camden, New Jersey
Grantee: The Center for Environmental Transformation
Grant Amount:.....$500,000
Matching Funds:.....$65,300
Total Project Amount:.....$565,300
Create a resilience plan for Camden, New Jersey, to reduce risk from coastal flooding and improve watershed habitat. Project will conduct risk analysis and engage the public through educational events to inform residents about potential resilience strategies and develop a master-plan that identifies projects suitable for implementation.

Constructing a Marsh Terraces Network to Improve Flood Resilience (VA)
Grantee: City of Virginia Beach Department of Public Works
Grant Amount:.....$9,886,400
Matching Funds:.....$19,647,000
Total Project Amount:.....$29,533,400
Construct 27,000 linear feet of marsh terraces comprising 51 acres of emergent marsh, upland, and subaqueous vegetation within Back Bay, Virginia Beach. Project will improve water quality, restore fish and wildlife habitats, and reduce erosion of marsh systems that buffer communities from flooding.

Designing a Resilience Action Plan for Maryland's Coastal Communities
Grantee: University of Maryland Environmental Finance Center
Grant Amount:.....$513,500
Matching Funds:.....$106,400
Total Project Amount:.....$619,900
Design a resilience action plan for eight coastal Maryland communities to identify and prioritize a set of nature-based solutions that will improve resilience to coastal hazards. Project will evaluate capacity and readiness of the communities to adapt and connect each community to partners that can expand capacity or support implementation.

Developing and Piloting a Coastal Resilience Toolkit for Thin Layer Placement in Coastal Virginia
Grantee: The Elizabeth River Project
Grant Amount:.....$550,000
Matching Funds:.....$120,000
Total Project Amount:.....$670,000
Develop a best management practices framework for utilizing thin layer sediment placement for marsh restoration to mitigate impacts of sea level rise in coastal Virginia. Project will develop a GIS tool to identify dredging locations and potential beneficial use sites and begin engineering design for up to three one-acre demonstration projects.

Developing Climate Resilience Roadmap in Turner Station, Maryland
Grantee: Baltimore County, Maryland
Grant Amount:.....$500,000
Matching Funds:.....$208,000
Total Project Amount:.....$708,000
Develop a Climate Resilience Roadmap for Turner Station that incorporates green stormwater solutions to improve aquatic habitat and community resilience. Project will prioritize community-centered engagement through small working groups and surveys to understand future coastal hazards and identify resilience priorities.

Rehabilitating Industrial Land along the Raritan Bay Waterfront (NJ)
Grantee: City of South Amboy
Grant Amount:.....$2,869,700
Matching Funds:.....$1,610,000
Total Project Amount:.....$4,479,700
Restore 6 acres of former industrial land along 0.3 miles of coastline through marsh and living shoreline construction to enhance nesting habitat for osprey, little blue heron and snowy egret. Project will revitalize the coastal ecosystem to improve resilience to flood hazards and provide the community with safe access to the waterfront.

NORTHEAST

Assessing and Prioritizing Tidal Restriction Restoration Projects in Ten Kennebec Estuary Towns (ME)
Grantee: Kennebec Estuary Land Trust
Grant Amount:.....$249,800
Matching Funds:.....$21,800
Total Project Amount:.....$271,600
Evaluate more than 150 Kennebec Estuary tidal crossing sites for habitat restoration potential, community resilience needs and project feasibility. Project will engage with local road managers and conservation experts to establish metrics for site evaluation, develop helpful fact sheets for each crossing, and identify a subset of priority crossings for additional fieldwork to develop a pathway forward for project work and funding plans.

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Assessing Nature-Based Solutions to Mitigate Flood Impacts along the Cove River (CT)
Grantee: City of West Haven
Grant Amount:.....$508,700
Matching Funds:.....$149,900
Total Project Amount:.....$658,600
Conduct alternatives analysis and targeted public engagement to identify appropriate nature-based solutions along the Cove River. Project will advance efforts to enhance connectivity between headwaters and coast, between channel and floodplain, and to restore natural flow patterns, flood-mitigation capabilities and habitats.

Community-Driven Site Assessment and Preliminary Design of Flood Buyout Lands (NY)
Grantee: Town of Olive
Grant Amount:.....$290,800
Matching Funds:.....$70,800
Total Project Amount:.....$361,600
Empower youth leaders to engage residents of the Town of Olive in imagining new uses for vacated floodplain lands to restore habitat and provide community green spaces to reduce impacts of flooding. Project will conduct soil and elevation analysis, identify wetlands and riparian areas, confirm property lines, and conduct a vegetation inventory on the parcels identified for restoration.

Constructing a Living Shoreline to Prevent Coastal Erosion at Udalls Cove (NY)
Grantee: Save the Sound
Grant Amount:.....$2,380,400
Total Project Amount:.....$2,380,400
Create a living shoreline through oyster castle installation, native salt marsh restoration and bioengineered stabilization techniques along 800 feet of eroding shoreline in Udalls Cove, Queens, New York. Project will protect a critical roadway and the community from further coastal erosion, and restore 3 acres of salt marsh and 0.14 acres of oyster reef habitat.

Creating Cohesive Nature-Based Resilience in Connecticut
Grantee: Connecticut Department of Energy & Environmental Protection
Grant Amount:.....$613,000
Matching Funds:.....$650,000
Total Project Amount:.....$1,263,000
Expand Connecticut's nature-based resilience capacity by providing training, education and technical assistance to municipalities engaged in project design, permitting and partnerships to lead projects to implementation. Project will identify 10-15 resilience plans and 2-5 living shoreline projects that will benefit spartina grass, eastern oysters, ribbed mussels, winter and summer flounder nursery and wading birds.

Creating Flood Resilience through Community Land Use Planning in Norwalk (CT)
Grantee: City of Norwalk, Connecticut
Grant Amount:.....$211,800
Matching Funds:.....$72,200
Total Project Amount:.....$284,000
Create a city-wide flood resilience workplan to prioritize and execute strategies, land use planning and site-specific projects. Project will provide a framework of nature-based solutions resulting in improved community resilience and enhanced coastal habitat in response to coastal hazards.

Designing Providence Riverwalk to Improve Resilience and Habitat of Woonasquatucket River (RI)
Grantee: City of Providence
Grant Amount:.....$1,000,000
Matching Funds:.....$2,000,000
Total Project Amount:.....$3,000,000
Develop final designs to naturalize the Providence Riverwalk to improve water quality, resiliency, and habitat of the Woonasquatucket River. Project will, once implemented, raise the riverwalk above future flood elevations, renaturalize riverbanks beneath the new shared-use path and filter storm-water runoff.

American oystercatchers

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Portland head lighthouse in Maine

Developing Coastal Flooding Projections and Education Hub in Maine
Grantee: Gulf of Maine Research Institute
Grant Amount:.....$163,000
Matching Funds:.....$104,000
Total Project Amount:.....$267,000
Develop a hub for sea-level rise and flooding datasets along the coast of Maine that includes asynchronous educational materials and in-person trainings. Project will support ongoing regional planning efforts to provide the technical foundation for prioritizing nature-based solutions to enhance the resilience of Maine's coastal communities, environments and infrastructure.

Engaging Frontline Communities to Build Climate and Watershed Resilience (RI)
Grantee: Woonasquatucket River Watershed Council
Grant Amount:.....$250,000
Matching Funds:.....$745,000
Total Project Amount:.....$995,000
Engage frontline residents through Woonasquatucket River Watershed Council's New Voices Program and Providence's Racial and Environmental Justice Committee's Green Justice Zones Program to design a nature-based watershed resilience project. Project will equip residents with tools to engage in green infrastructure projects and a watershed-wide flood resilience project to reduce impacts of sea-level rise, extreme heat and improve water and habitat quality.

Enhancing the Resilience of Coastal Downeast Maine through Salt Marsh Restoration
Grantee: Downeast Salmon Federation
Grant Amount:.....$1,745,700
Matching Funds:.....$101,700
Total Project Amount:.....$1,847,400
Complete final design and permitting for three large salt marsh restoration projects in Downeast Maine to reduce impacts of sea-level rise and storm events. Project will conduct ecological assessments and advanced hydrological modeling to ready each restoration site for implementation, which will enhance the resiliency of two coastal Maine communities.

Living Shoreline Planning to Improve Resilience in Montauk (NY)
Grantee: Town of East Hampton
Grant Amount:.....$350,000
Matching Funds:.....$360,000
Total Project Amount:.....$710,000
Complete site assessments and preliminary designs of living shorelines in Lake Montauk and Fort Pond to mitigate impacts of shoreline erosion and severe flooding. Project will engage and educate the community and local committees to determine effective locations and types of living shorelines most compatible with the Town of East Hampton.

Preliminary Design Planning for Tidal Restoration at Weir Creek (MA)
Grantee: Association to Preserve Cape Cod
Grant Amount:.....$279,300
Matching Funds:.....$27,300
Total Project Amount:.....$306,600
Complete preliminary design plans for tidal restoration of Weir Creek to improve upstream salt marsh habitat and reduce impacts of flooding. Project will engage the community for input on the design process that will include a hydraulic and hydrologic study and analysis of culvert design alternatives.

Protecting Saltmarsh Sparrows and Great Marsh Communities through Salt Marsh Restoration (MA)
Grantee: Massachusetts Division of Fisheries and Wildlife
Grant Amount:.....$795,000
Matching Funds:.....$71,400
Total Project Amount:.....$866,400
Complete final designs and permitting for Great Marsh restoration in Massachusetts. Project will, once implemented, restore 3,278 acres of salt marsh through nature-based techniques, removal of two tidal restrictions, reversing salt marsh subsidence, and maintaining high marsh to improve coastal resilience.

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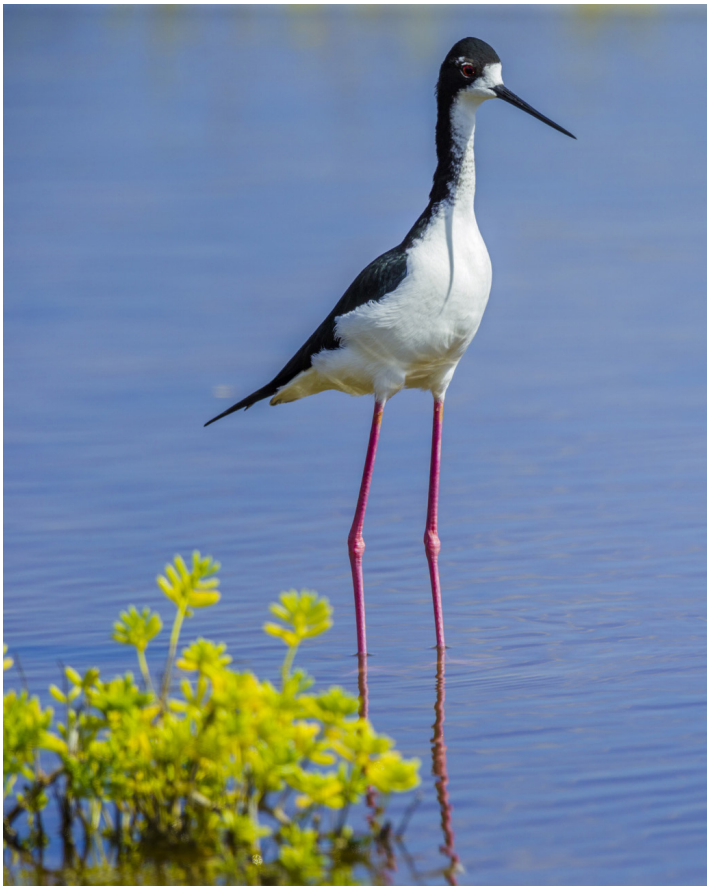
Bull moose in Maine



Black winged stilt bird on Maui, Hawai'i

Restoring Back River Creek Tidal Marsh to Enhance Community and Habitat Resilience (ME)
Grantee: Kennebec Estuary Land Trust
Grant Amount:..... $3,506,400
Matching Funds:..... $215,000
Total Project Amount:..... $3,721,400
Restore 99 acres of brackish tidal marsh and construct a new tidal channel for fish passage to benefit alewives, striped bass and short nose sturgeon in Back River Creek. Project will create a new tidal channel opening and remove an earthen berm from the marsh surface to make the town and its water utility infrastructure more resilient to sea-level rise.

Restoring Salt Marsh Habitat to Improve Coastal Resilience at Great Marsh (MA)
Grantee: Ducks Unlimited
Grant Amount:..... $3,033,400
Matching Funds:..... $85,000
Total Project Amount:..... $3,118,400
Restore 1,600 acres of critical tidal marsh at Great Marsh and Parker River National Wildlife Refuge to benefit salt marsh sparrow, American black duck, red knot, Atlantic sturgeon and soft-shell clams. Project will provide critical habitat and increase stormwater retention, flood abatement, storm surge attenuation, and carbon sequestration capabilities.

PACIFIC ISLANDS

Advancing Nature-Based Solutions to Stabilize and Enhance Saipan's Beach Road Corridor (MP)
Grantee: Pacific Coastal Research & Planning
Grant Amount:..... $376,300
Matching Funds:..... $14,400
Total Project Amount:..... $390,700
Develop permit-ready engineering designs for a shoreline stabilization project along the Beach Road corridor on Saipan. Project will conduct biological surveys and finalize site plans for living shoreline, beach nourishment, stormwater interventions and public access improvements to protect critical infrastructure and marine ecosystems.

Analysis and Design of Flood Mitigation through Wetland Restoration in Kahuku (HI)
Grantee: Kahuku Community Association
Grant Amount:..... $374,600
Matching Funds:..... $719,800
Total Project Amount:..... $1,094,400
Create a comprehensive flood mitigation plan that redirects stormwater into restored engineered wetlands to support endangered native Hawaiian waterbird habitat. Project will facilitate community meetings and have wetland engineers assess the scale and design of solutions to provide flood relief for the local community.

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Collaborative Planning to Improve Wetland Stewardship in West Loch, Pearl Harbor (HI)
Grantee: Hui o Ho`ohonua
Grant Amount:. $500,000
Matching Funds:. $475,500
Total Project Amount:. $975,500
Collaborate to enhance wetlands stewardship in order to restore shorelines in West Loch, Pearl Harbor. Project will engage with community leaders and public organizations to develop plans for coastal wetland restoration that will provide increased habitat and protection from flooding and storm damage.

Coral Reef Restoration to Enhance Coastal Community Resilience in Saipan (MP)
Grantee: Lyza Johnston DBA Johnston Applied Marine Sciences
Grant Amount:. $1,500,000
Matching Funds:. $206,000
Total Project Amount:. $1,706,000
Restore coral populations along the western barrier reef of Saipan, Commonwealth of the Northern Mariana Islands to enhance fisheries habitat and reduce impacts from sea-level rise. Project will protect vulnerable coastal communities from flooding and erosion to improve overall island community resiliency.

Restoring Forests to Protect West Maui's Rural Communities from Flooding (HI)
Grantee: State of Hawai'i, Department of Land and Natural Resources
Grant Amount:. $1,266,800
Matching Funds:. $1,273,400
Total Project Amount:. $2,540,200
Restore native forests through fencing, animal removal, firebreak improvements, and community volunteer tree planting to benefit flood vulnerable communities in West Maui, Hawai'i. Project will increase infiltration rates to reduce flood impacts and enhance water quality to benefit seabird and waterbird habitat.

Restoring Watersheds through Agroforestry to Improve Erosion Control in Guam
Grantee: University of Guam Sea Grant
Grant Amount:. $1,568,400
Matching Funds:. $50,900
Total Project Amount:. $1,619,300
Utilize agroforestry through intercropping fruit trees with ongoing native tree planting to improve biodiversity and habitat for birds in Guam. Project will reduce flow of land-based pollutants from significant soil erosion to protect coastal waters and adjacent streams that lead to the Ugum river.

Utilizing LiDAR to Support Nature-Based Resilience Solutions in American Samoa
Grantee: American Samoa Government Department of Commerce
Grant Amount:. $1,673,100
Matching Funds:. $195,000
Total Project Amount:. $1,868,100
Collect topographical-bathymetric LiDAR and plane-based photographic imagery for all of American Samoa's islands and atolls to form the foundation for resilience projects that address sea-level rise in American Samoa. Project will acquire the foundational water level, geodetic observations, and inundation modeling needed to build capacity to implement coastal resilience projects.

SOUTHEAST

Building a Just and Climate Resilient Brunswick (GA)
Grantee: Glynn Environmental Coalition
Grant Amount:. $282,100
Matching Funds:. $450,000
Total Project Amount:. $732,100
Build decision-making capacity of historically marginalized communities to mitigate impacts from storm surge and flooding. Project will engage climate experts and community members to identify climate resiliency problems, rank the priority to address them, and identify nature-based solutions to protect both the community and fish and wildlife.

Building a Resilient Coastal Communities Collaborative Program in South Carolina
Grantee: South Carolina Office of Resilience
Grant Amount:. $750,700
Matching Funds:. $115,600
Total Project Amount:. $866,300
Create a South Carolina Resilient Coastal Communities Collaborative Program. Project will advance existing coastal resilience efforts to facilitate nature-based resilience solutions benefiting fish and wildlife ecosystems and provide community capacity building in underserved communities.

Building Resilience Capacity to Protect Coastal Communities at Naval Submarine Base Kings Bay (GA)
Grantee: Georgia Tech Research Corporation
Grant Amount:. $967,300
Matching Funds:. $902,700
Total Project Amount:. $1,870,000
Assess restoration potential of natural infrastructure along with hydrodynamic conditions and sediment dynamics near Naval Submarine Base Kings Bay. Project will build on existing resiliency plans within Camden County to design nature-based solutions such as living shorelines and marsh restoration.

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Bobcat in Everglades National Park

Community Capacity Building for Nature-Based Flood Resiliency in Rosemont and Bridgeview (SC)
Grantee: Lowcountry Alliance for Model Communities
Grant Amount:.....$300,000
Matching Funds:.....$317,000
Total Project Amount:.....$617,000
Develop a flood resiliency plan that identifies potential sites for living shorelines and nature-based infrastructure in Rosemont and Bridgeview. Project will promote community-led resiliency planning to prevent flooding and protect endangered ecosystems in the Charleston Neck.

Designing Cutler Marsh and Mangroves to Enhance Resilience at Biscayne National Park (FL)
Grantee: Miami-Dade County
Grant Amount:.....$330,000
Matching Funds:.....$437,100
Total Project Amount:.....$767,100
Accelerate the restoration of coastal wetlands, mangroves, and forests adjacent to Biscayne National Park to benefit American crocodile, bobcats, roseate spoonbills, and other migratory birds. Project will advance the conceptual designs to create final engineering and design plans to enhance coastal protection and resilience for neighboring communities and wildlife habitat.

Designing Living Shorelines to Protect Critical Infrastructure and Estuarine Habitat (NC)
Grantee: North Carolina Coastal Federation
Grant Amount:.....$510,600
Matching Funds:.....$510,000
Total Project Amount:.....$1,020,600
Complete final designs for three living shorelines at Marine Corps Air Station New River and Marine Corps Base Camp Lejeune to protect their critical estuarine-side infrastructure from storm-based erosion. Project will, once implemented, benefit the installation and its residents as well as provide habitat for many species of fish and wildlife, including six threatened and endangered species.

Designing Resilient Solutions to Protect Salt Marsh and Coastal Communities from Flooding (GA)
Grantee: Georgia Department of Natural Resources
Grant Amount:.....$328,500
Matching Funds:.....$44,600
Total Project Amount:.....$373,100
Complete 50 percent designs for nature-based and hybrid practices to mitigate combined salt and freshwater flooding impacts in Brunswick, Georgia. Project will produce designs that protect coastal salt marsh habitat from runoff and sedimentation and adjacent community infrastructure from current and future flooding impacts.

Final Design and Permitting to Restore Hogans Creek (FL)
Grantee: Groundwork Jacksonville
Grant Amount:.....$5,848,900
Matching Funds:.....$5,043,700
Total Project Amount:.....$10,892,600
Complete final designs and permitting to restore 44 acres of wetland habitat and upland buffers at Hogans Creek to benefit saltwater fish species including rock sea bass, gray snapper, red drum, and crevalle jack. Project will engage with neighborhoods and stakeholders during the design process and once implemented, will reduce flooding, improve water quality, and enhance fish and wildlife habitat.

Improving the Pathway for Beneficial Use Dredged Materials to aid in Coastal Resiliency (GA, NC, SC)
Grantee: Manomet
Grant Amount:.....$172,500
Matching Funds:.....$181,800
Total Project Amount:.....$354,300
Increase planning and capacity at the state level for beneficial use of dredged material to improve ecosystem health and reduce flood risk impacts. Project will identify successful projects to emulate, and convene partners to identify habitat areas that can beneficially use dredged materials to increase coastal resiliency.

School of crevalle jack

(continued)

Florida coastal marsh

Increasing Resilience of Marine Corps Recruit Depot Parris Island Through Living Shorelines (SC)
Grantee: South Carolina Coastal Conservation League
Grant Amount:. $1,187,000
Matching Funds:. $863,100
Total Project Amount:. $2,050,100
Improve natural infrastructure and establish living shorelines through salt marsh restoration and 3.1 acres of oyster reef enhancement. Project will reduce erosion, stabilize the shoreline, reduce storm surge impact, and improve water quality while also protecting Department of Defense installations, surrounding communities and resources from climate impacts.

Innovating Salt Marsh Restoration Techniques to Protect Coastal Community Infrastructure (FL)
Grantee: University of Florida
Grant Amount:. $1,048,000
Matching Funds:. $80,000
Total Project Amount:. $1,128,000
Complete final designs and permits for the beneficial re-use of dredged sediment to restore 260 acres of smooth cordgrass habitat. Project will, when implemented, protect critical infrastructure in coastal Florida and provide resiliency to marsh habitat through a design informed by sea-level rise projections.

Restorative Landscape Planning for Rural Communities in Georgia's Coastal Plains
Grantee: Anthropocene Alliance
Grant Amount:. $284,800
Matching Funds:. $70,000
Total Project Amount:. $354,800
Develop a restorative landscape plan and 60 percent completed designs for two impoverished rural communities in the Coastal Plains of Georgia. Project will provide a model for restoration that is designed to protect homes from coastal hazards, improve water quality and enhance slash and loblolly pine and oak-gum-cypress forest habitat.

WEST COAST

Adaptation Planning for the San Leandro Operation Landscape Unit (CA)
Grantee: City of Alameda
Grant Amount:. $540,000
Matching Funds:. $800,000
Total Project Amount:. $1,340,000
Create a coordinated action plan to advance sea-level rise adaptation in the San Leandro Operation Landscape Unit. Project will bring together a coalition of shoreline communities, agencies and stakeholders to conduct a vulnerability assessment and identify strategies to mitigate flood impact and enhance habitat.

Advancing Living Shoreline Planning in San Francisco Bay (CA)
Grantee: California State Coastal Conservancy
Grant Amount:. $1,000,000
Matching Funds:. $4,300,000
Total Project Amount:. $5,300,000
Design 10 living shoreline projects in San Francisco Bay to reduce impacts of flooding and storm surge in highly urbanized areas. Project will engage with local, private,and state landowners to identify nature-based restoration strategies and permitting pathways for implementation.

Assessing Nature-Based Solutions to Improve Flood Hazard Management (WA)
Grantee: The Tulalip Tribes of Washington
Grant Amount:. $366,400
Matching Funds:. $79,500
Total Project Amount:. $445,900
Build upon completed Tulalip Tribes' coastal erosion predictions, habitat analysis and United States Geological Survey Coastal Storm Modeling System of flood hazard projections to evaluate adaptive responses to coastal hazards. Project will result in preliminary designs for nature-based solutions that will mitigate effects of sea-level rise on ecosystem services and infrastructure along the Tulalip shoreline.

Banning Ranch Natural Resource and Coastal Resilience Planning (CA)
Grantee: Banning Ranch Conservancy
Grant Amount:. $500,000
Matching Funds:. $1,000,000
Total Project Amount:. $1,500,000
Develop a resource management plan and coastal resilience strategy for Banning Ranch, a 387-acre property consisting of wetlands and coastal bluff in Orange County. Project will conduct robust community and stakeholder engagement, collect data and survey the site to identify potential nature-based recommendations to be implemented.

(continued)

Reforested foredune | Credit: Friends of the Dunes

Building Capacity to Support Mendocino County's Sea Level Rise Resilience Strategy (CA)
Grantee: County of Mendocino
Grant Amount:.....$100,000
Matching Funds:.....$100,000
Total Project Amount:.....$200,000
Conduct a multi-jurisdictional planning process to assess and plan for impacts of sea-level rise in coastal Mendocino County. Project will develop a County Sea Level Rise Resilience Strategy to summarize existing flooding issues and impacts from sea-level rise and establish a prioritized list of nature-based solution projects that will improve coastal community resilience once implemented.

Building Resiliency and Restoring Critical Habitat in a Northern California Dune System
Grantee: Friends of the Dunes
Grant Amount:.....$1,999,600
Matching Funds:.....$843,000
Total Project Amount:.....$2,842,600
Restore 18 acres of dunes along 1.3 miles of shoreline on the North Spit of Humboldt Bay in California to reduce exposure to extreme storms and facilitate long-term barrier migration in response to sea-level rise. Project will eradicate invasive species and revegetate with native species and restore soil health to increase biodiversity and resilience.

Community-Driven Planning to Advance Equitable Nature Based Resilience Solutions (CA)
Grantee: Coastal Quest
Grant Amount:.....$629,700
Matching Funds:.....$125,000
Total Project Amount:.....$754,700
Support community-based organizations to co-design two resilience projects in partnership with local jurisdictions in the Bay Area. Project will pilot partnership models and community-driven planning processes that result in implementable nature-based resilience projects consistent with the regional adaptation framework.

Designing Floodplain Restoration in Lower Pescadero Creek Corridor (CA)
Grantee: San Mateo Resource Conservation District
Grant Amount:.....$139,000
Matching Funds:.....$58,000
Total Project Amount:.....$197,000
Complete 60 percent designs for a community-based, collaborative, integrated approach to riparian and floodplain restoration along a half-mile of Pescadero Creek to reduce flooding and erosion and improve habitat for protected species. Project will advance nature-based solutions to provide resilience for salmonids by creating refugia for both drought and high velocity storm events and for rearing during poor water quality conditions in the downstream estuary.

(continued)

Chinook salmon in California

Designing Habitat Restoration and Flood Reduction Strategies at Willapa River (WA)
Grantee: Pacific Conservation District
Grant Amount:. $940,000
Matching Funds:. $172,500
Total Project Amount:. $1,112,500
Create multi-benefit design concepts for habitat restoration and green stormwater infrastructure to improve water quality and open off-channel habitat for salmonids in Willapa Bay. Project will conduct outreach to collaboratively design nature-based resilience projects that reduce flood risk.

Expanding Coastal Conservation and Restoration to Build Resiliency of Admiralty Bay (WA)
Grantee: Whidbey Camano Land Trust
Grant Amount:. $1,422,500
Matching Funds:. $3,248,000
Total Project Amount:. $4,670,500
Acquire 210 acres of shoreline, associated feeder bluffs, forest and riparian habitat and open fields on Admiralty Bay to allow expanded restoration of natural coastal processes. Project will protect and enhance salmon-relevant coastal habitat and build resilience through feeder bluff restoration, riparian and coastal buffer restoration, forest enhancement and regenerative agriculture practices.

Hydraulic Reconnection to Restore Salmonid Habitat at Thomas' Eddy (WA)
Grantee: Snohomish County
Grant Amount:. $5,844,800
Matching Funds:. $2,120,000
Total Project Amount:. $7,964,800
Restore floodplain connection at Thomas' Eddy on the Snohomish River to enhance juvenile salmon rearing opportunity. Project will remove large sections of levee to restore natural floodplain conditions, improve edge habitat through rock removal and installation of log structures, improve off-channel habitat connection, restore riparian vegetation and add floodplain streamflow enhancements.

Planning for Community and Ecosystem Resilience on the Central Oregon Coast
Grantee: Oregon Department of Land Conservation and Development
Grant Amount: $289,400
Matching Funds:. $78,200
Total Project Amount: $367,600
Engage coastal communities in Lincoln and Lane Counties through conducting coastal resilience needs assessments, site cost-benefit analyses and setting coastal resilience priorities. Project will empower coastal communities to plan and implement coastal resilience activities and accomplish broader resiliency goals and restoration priorities in highly vulnerable estuaries.

Planning for Floodplain Restoration through Yurok Tribe's Hunter Creek Land Repatriation (CA)
Grantee: Yurok Tribe
Grant Amount: $747,300
Matching Funds:. $10,600
Total Project Amount: $757,900
Repatriate and survey land to analyze the 100-year floodplain, design appropriate restoration techniques to benefit coho and Chinook salmon as well as Pacific lamprey. Project will develop a plan to protect community homes and critical infrastructure from flooding through instream and riparian habitat rehabilitation and floodplain restoration.

Preliminary Designs of Lower Elk Creek Wetland Enhancement (CA)
Grantee: Smith River Alliance
Grant Amount: $207,900
Matching Funds:. $12,800
Total Project Amount: $220,700
Develop conceptual designs to enhance coastal wetlands and engage the community in restoration planning and stewardship of the Elk Creek Wetlands Wildlife Area. Project will conduct planning required to restore highly productive low-gradient wetland and off-channel salmonid habitat in the tidally influenced portion of Elk Creek, and enhance natural buffers to protect Crescent City from flooding and storm surges.

(continued)

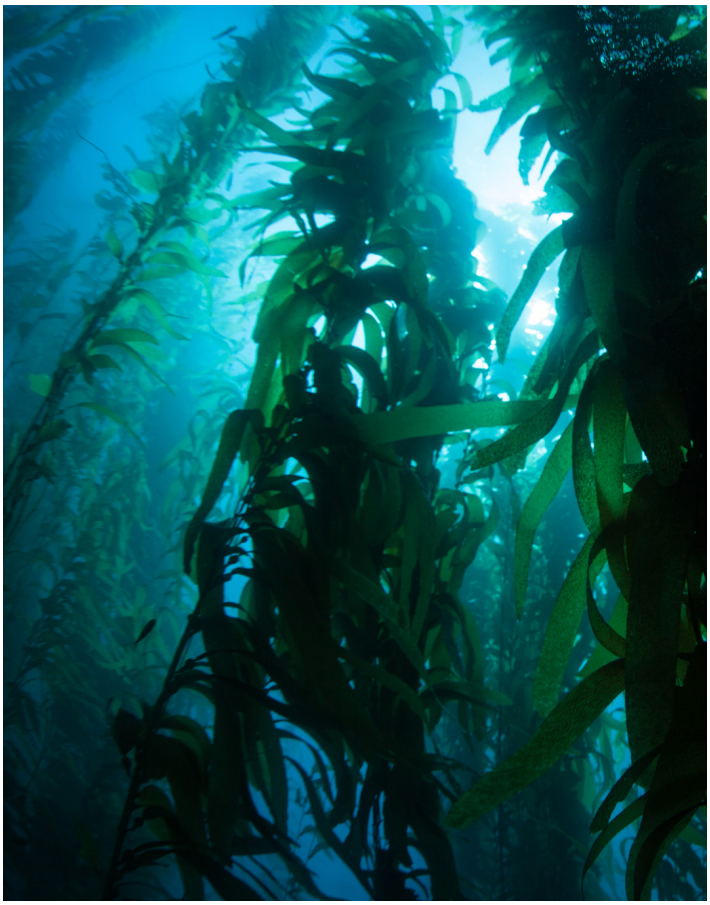
Snowy plover

Restoring Graveyard Spit to Prevent Coastal Erosion in Willapa Bay (WA)
Grantee: Washington State Department of Transportation (WSDOT)
Grant Amount:. $9,980,700
Matching Funds:. $797,500
Total Project Amount:. $10,778,200
Restore Graveyard Spit through nature-based dune and cobble berm construction along the northern entrance to Willapa Bay, Washington, to benefit the western snowy plover and streaked horned lark. Project will enhance back-barrier intertidal marsh and freshwater wetland habitat, and protect critical community infrastructure that is threatened by coastal erosion.

Restoring Kelp Forest to Enhance Coastal Resilience and Increase Carbon Sequestration (CA)
Grantee: Greater Farallones Association
Grant Amount:. $1,500,000
Matching Funds:. $1,028,700
Total Project Amount:. $2,528,700
Restore kelp forest habitat in the Greater Farallones National Marine Sanctuary to evaluate kelp forest influence on coastal resilience and quantify carbon sequestration potential. Project will conduct oceanographic and hydrodynamics study to investigate the climate benefits of restored kelp forests.

Restoring Riparian and Tidal Wetlands at Bolinas Lagoon (CA)
Grantee: Marin County Parks
Grant Amount:. $3,675,600
Matching Funds:. $2,757,900
Total Project Amount:. $6,433,500
Realign roadway to facilitate restoration of Lewis Gulch Creek to its former alluvial fan and floodplain. Project will ensure a safe transportation route for the community, enhance wetland resiliency, restore ecosystem processes and improve habitat for salmonids.

Restoring Two Historic Wetlands to Reduce Flooding, Improve Water Quality and Freshwater Habitat (OR)
Grantee: Cascade Pacific Resource Conservation and Development Area
Grant Amount:. $2,996,600
Matching Funds:. $428,700
Total Project Amount:. $3,425,300
Work with two private agricultural landowners to support voluntary restoration of agricultural properties to historical freshwater pasturine wetlands in the core Coastal Coho lakes system in Oregon. Project will restore natural functions to this priority basin and will monitor results in improvements of native fisheries and water quality in the Tenmile Lakes Watershed.



Kelp forest on the California coast

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In August 2022, NFWF announced eight awards through the National Coastal Resilience Fund totaling $7.7 million in funding. These awards supported work to advance existing "pipeline" projects to the next stage of design and implementation. The grants awarded in August include the following:

Coastal Wetland Restoration to Improve Community Resiliency in West Ashley, City of Charleston (SC)
Grantee: South Carolina Department of Natural Resources
Grant Amount:. $1,549,200
Matching Funds:. $1,070,500
Total Project Amount:. $2,619,700
Restore the tidal marsh adjacent to Old Town Creek at Maryville through community-based channel excavation, salt marsh restoration and construction of oyster reef living shorelines. Project will improve community coastal resilience and enhance tidal marsh habitat in a degraded estuarine area using nature-based solutions.

Eastern Shore Barrier Island Stabilization and Marsh Habitat Engineering Design and Permitting (VA)
Grantee: College of William and Mary, Virginia Institute of Marine Science
Grant Amount:. $310,300
Matching Funds:. $253,400
Total Project Amount:. $563,700
Develop final engineering design plans for 217 acres of marsh restoration and expansion along southern Cedar Island, Virginia, to enhance backbarrier marsh and lagoon habitat to improve rural community resilience. Project will secure permitting and provide outreach to resiliency planning organizations and citizens on the Eastern Shore.

Final Designs to Improve Coastal Resiliency at Gull Cove and Quonochontaug Pond Breachway (RI)
Grantee: Rhode Island Department of Environmental Management, NBNERR
Grant Amount:. $200,200
Matching Funds:. $50,000
Total Project Amount:. $250,200
Complete final designs and permitting for two shoreline resilience projects in Portsmouth and Charlestown, Rhode Island. Project will be an implementation ready design to restore coastal habitat, improve resiliency to flooding and erosion, and increase shoreline access.

Final Floodplain Habitat Design To Establish Green Infrastructure along Woodbridge River (NJ)
Grantee: Rutgers, The State University of New Jersey
Grant Amount:. $397,600
Matching Funds:. $210,500
Total Project Amount: $608,100
Produce final floodplain restoration designs that incorporate nature-based solutions and green infrastructure to improve ecosystem function and mitigate flood risk in three communities in coastal New Jersey. Project will improve community resilience and wetland habitat for terrestrial and aquatic wildlife.

Megunticook River Watershed Fish Passage and Flood Prevention Final Designs and Permitting (ME)
Grantee: Town of Camden, Maine
Grant Amount:. $1,601,000
Matching Funds:. $260,000
Total Project Amount:. $1,861,000
Develop final designs and engineering plans for full or partial removal of four dams and fish passage construction at two additional sites where dam removal is not feasible. Project will, once constructed, improve flood resiliency and habitat connectivity for sea run and resident fish including brook trout, American eel, Atlantic salmon, and rainbow smelt throughout the Megunticook watershed in Camden, Maine.

Restoring Coastal Dunes to Improve Community Resilience and Enhance Wildlife Habitat (HI)
Grantee: University of Hawai'i
Grant Amount:. $1,435,700
Matching Funds:. $417,600
Total Project Amount:. $1,853,300
Restore 12 acres of impaired coastal sand dunes at Kapukaulua to address impacts of coastal hazards and enhance habitat for native Hawaiian plants and animals including wedge-tailed shearwaters, Hawaiian green sea turtles and endangered Hawaiian monk seals. Project will preserve and restore dunes along one mile of shoreline to reduce impacts of erosion, sea-level rise, and high wave flooding.

Scheeff and Middle Bass Island East Point Preserve Shoreline Stabilization (OH)
Grantee: Put-In-Bay Township Park District
Grant Amount:. $700,000
Matching Funds:. $950,000
Total Project Amount:. $1,650,000
Construct a living shoreline at Scheeff East Point Preserve through a variety of natural shoreline restoration techniques. Project will remove foreign debris, place fallen trees and boulders to stabilize existing shoreline and deflect wave energy, and plant native vegetation and beach materials to enhance wetland and aquatic habitat for native mussels and fish.

Utilizing a Traditional Framework to Minimize Flooding in Maunalua Bay Watersheds (HI)
Grantee: Malama Maunalua
Grant Amount:. $1,506,700
Matching Funds:. $155,000
Total Project Amount:. $1,661,700
Develop final plans utilizing ahupua'a, a land division roughly equivalent to a watershed, to address flooding and erosion risk in several watersheds of Maunalua Bay, O'ahu, Hawai'i. Project will utilize green infrastructure solutions to reduce runoff and adapt streams to mimic natural flow in order to reduce flooding and erosion.