



Safeguarding SF Bay's Tidal Marshes and Outer Coast as Sea Levels Rise

Along the San Francisco Bay Area's outer coast, we are also helping habitat and urban managers plan for sea level rise and storm hazards through "Our Coast, Our Future," launched by PRBO, Gulf of the Farallones NMS, and US Geological Survey. We met with 55 stakeholders to ensure the forthcoming on-line tools will be useful — and used — for adaptation planning.

Next Steps: Complete the online viewing tool and expand it to San Francisco Bay shorelines.

Our Coast, Our Future Project Project Summary

Together with several partners in the Bay Area Ecosystems Climate Change Conservation Consortium (BAECCC), PRBO, USGS, the Gulf of the Farallones National Marine Sanctuary and the National Park Service launched a project to provide Bay Area natural resource managers, local governments and others with science-based decision support tools for planning and responding to sea level rise and storm hazards along the Bay Area's outer coast from Half Moon Bay to Bodega Head. As part of this "Our Coast, Our Future" project (<http://data.prbo.org/apps/ocof/>), we will develop online decision-support tools powered by the most recent 2-meter horizontal resolution digital elevation model and a suite of sea level rise and storm scenarios applied using the USGS Coastal Storm Modeling System. Interactive maps overlaying societal and ecosystem vulnerabilities on the scenario suite will be tailored to stakeholder information needs for use in adaptation and response planning.

Now that we have begun this concerted effort focused on the outer coast, we are now planning to expand our project scope to include the inner Bay shoreline by integrating with our SF Bay Sea Level Rise Tool. We will engage stakeholders to integrate and refine two climate change impact modeling efforts (one for the outer coast and one for San Francisco Bay) to produce a powerful, user-driven, state-of-the-science decision support tool that can be applied seamlessly to outer coast and San Francisco Bay estuarine ecosystems and communities. Our ultimate goal is to empower decision-makers to develop adaptive, prioritized strategies and take effective actions to maintain healthy, viable, and resilient coastal ecosystems and communities.

Total Project Budget:	\$600,000
Remaining Funding Need:	\$150,000