Stinson Adaptation and Resilience Collaboration

(STINSON ARC)

Sea-level rise is a real and growing threat to coastal communities across the state. Not only are homes and infrastructure at risk, but our natural and recreational resources will be drastically impacted as well. As part of our continued work to respond and prepare for sea-level rise, the Marin County Community Development Agency (CDA) has launched Stinson ARC. This is a non-regulatory, local, stakeholder-based planning process focused on addressing current and future sea-level rise hazards in Stinson Beach. Through this process, we will explore a range of potential solutions to reduce risks posed by sea-level rise and coastal hazards in the short, medium, and long term. Stinson ARC will build off of previous county-wide sea-level rise assessments and adaptation engagement including the 2016 Collaboration: Sea-level Marin Adaptation Response Team (C-SMART) Vulnerability Assessment and the 2018 C-SMART Sea-level Rise Adaptation Report.

That previous work concluded that without action:

- A 100-year flood today at Easkoot Creek would impact over 50 homes.
- Just 1-2 feet of sea-level rise will flood critical low-lying infrastructure like Highway 1, Calle del Arroyo, and utilities.
- By 2030 several hundred properties could be at risk from flooding due to sea level rise and an annual storm, and nearly 600 homes are projected to be at risk by the end of the century.
- By mid to late century, Stinson could lose a significant amount of its beach area and wetlands due to rising water.

Taking action now through planning and assessment efforts like Stinson ARC will provide Stinson stakeholders with a framework to inform future decisions to address these risks and can be used to pursue funding strategies for adaptation projects.

BE A PART OF STINSON ARC

Community engagement is an important part of our data-driven approach to help stakeholders and residents understand the possibilities and limitations of adaptation strategies to coastal hazards, and make informed decisions about the future of Stinson Beach. Throughout the process, we will engage with Stinson Beach stakeholders and residents at key milestones to seek input and comments and document your concerns and interests about sea-level rise in Stinson Beach.

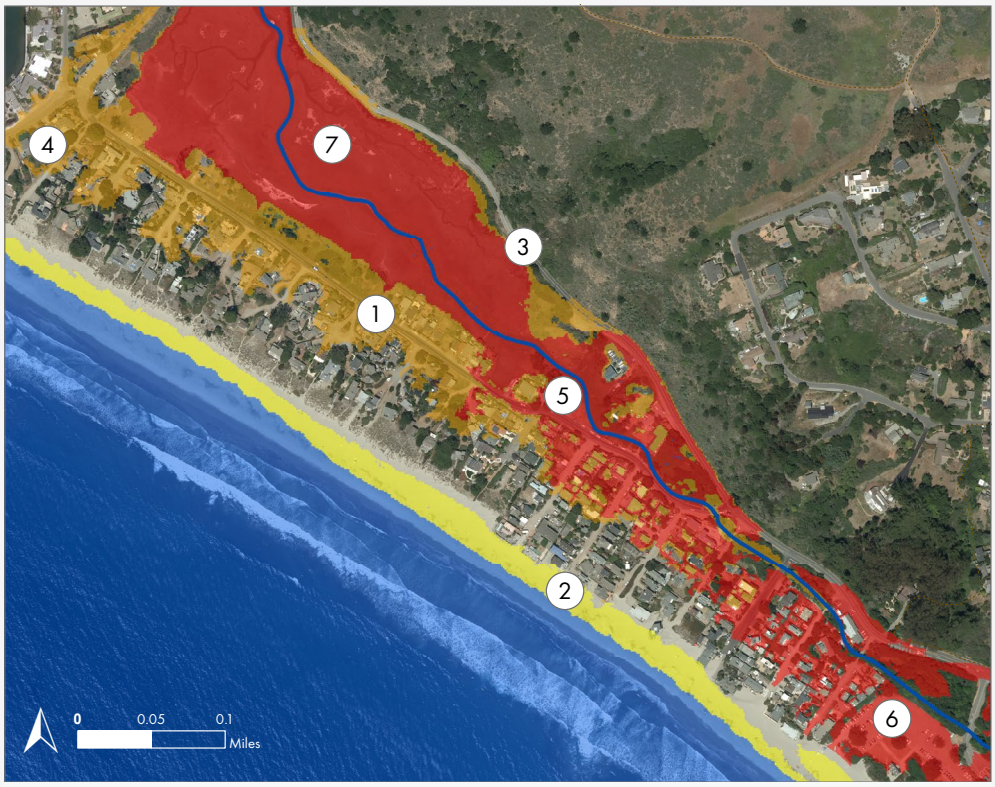
Click here to check out our project page for more information or be the first to know about outreach activities by signing up for email updates.

Stinson ARC Process

Stinson ARC will take place over three phases. The first phase, from August to December 2022, will focus on updating and expanding the 2016 Vulnerability Assessment to include new data and analysis such as groundwater, shoreline erosion, and septic systems. As we move into Phase 2 in 2023, we will evaluate the technical feasibility of a range of adaptation strategies. Each strategy will be analyzed based on cost, environmental impact, social impact, regulatory requirements, and overall technical feasibility. Finally, in 2024 we will enter Phase 3, during which we will investigate potential funding mechanisms for implementation strategies. At the conclusion of this process, we will have identified a range of possible adaptation actions to address sea-level rise at Stinson Beach, and the pros and cons of each option.

Stinson Beach Vulnerability Snapshot

Stinson is vulnerable to flooding from multiple sources: coastal sea level rise (yellow), Easkoot Creek (red), and rising waters from Bolinas Lagoon (orange). A combined flood could affect a larger area than shown by the individual flood layers here.



VULNERABLE ASSETS

Site Specific Assets Identified on Map

1. Calle del Arroyo
2. Upton Beach
3. Shoreline Highway
4. Coastal Access
5. Stinson Fire Department Annex
6. Beach Parking Lot
7. Wetland Area

Sea Level Rise (SLR) and Storm Scenarios

- Easkoot Creek
- Baseline No SLR / No Storm
- Easkoot Creek 100-yr flood
- Coast 3.3 ft SLR
- Lagoon 3.3 ft SLR