Making California's Coast Resilient to Sea Level Rise:

Principles for Aligned State Action



California's coast, bays, estuaries, and ocean are facing an immediate threat from sealevel rise. To improve effectiveness in addressing the immediate challenge of adapting our state to sea-level rise, California state agencies with coastal, bay, and shoreline climate resilience responsibilities, including for coastal infrastructure and Californians' safety, endorse the following Principles for Aligned State Action. These Principles will guide unified, effective action toward sea-level rise resilience for California's coastal communities, ecosystems, and economies around:

Best Available Science, Partnerships, Alignment, Communications, Local Support, Coastal Resilience Projects, and Equity

Background

- Californians' safety, local and state economies, critical infrastructure, and natural resources face increasing threats from sea-level rise (SLR).
- Every scientific assessment since California's 2009 Climate Adaptation Strategy has revealed that coastal impacts from climate change-caused SLR will occur more quickly and be more severe than previously projected. **California's coast faces a significant risk of experiencing SLR of up to 1.0 feet by 2030 and 7.6 feet by 2100**.
- Projections of future SLR point to **significant impacts to California communities**, with considerable environmental justice implications, upwards of hundreds of billions of dollars in impacts to property and development, impacts to statewide and regional water supplies, as well as significant damage to and loss of many miles of beaches, tidepools, coastal rivers, estuaries, and wetlands.

Goal

- As California has repeatedly demonstrated, a bold, statewide climate agenda benefits our natural resources, health and safety, economy, critical infrastructure, and communities. Our state has led global efforts on climate change mitigation and is poised to do so on climate change adaptation.
- These Principles will enable California to scale up coastal resiliency efforts through aligned strategies that create consistent, efficient decision-making processes and actions coastwide while improving collaboration across state, local, tribal, and federal partners.
- Action now saves up to six times the cost of action later, allows time for the state and communities to test and leverage needed solutions, and prevents untold impacts. By enhancing alignment and partnerships now, we will significantly improve the climate resiliency of our coast, bays, shorelines, and communities, particularly frontline communities most vulnerable to the impacts of SLR.



1. Develop and Utilize Best Available Science

- Apply best available science to planning, decision-making, project design, and implementation. Prioritize frequent engagement with stakeholders to ensure the science is actionable.
- Utilize SLR targets based on the best available science and a minimum of 3.5 feet of SLR by 2050. Develop and utilize more protective baseline 2050 and 2100 targets for road, rail, port, power plants, water and waste systems, and other critical infrastructure.

2. Build Coastal Resilience Partnerships

- Partner and coordinate regularly on SLR resilience issues, policies, planning, processes, mandates, permitting, information, funding, and projects, including with federal and local government bodies and tribes, and across issue areas and mandates.
- Regularly and collaboratively collect, share, and publicize the latest information on SLR and how agencies are using SLR projections to reduce risks to safety, property, infrastructure, natural ecosystems, and native species.
- Build strong relationships with all partners at all levels of government, and with the public, nonprofits, businesses, and other stakeholders.
- Consult, learn from, and coordinate and partner with tribes to ensure inclusive and multicultural stewardship of lands and waters subject to SLR.





3. Improve Coastal Resilience Communications

- Enhance SLR and coastal resilience communications and engagement, including alignment on SLR messaging and implementation of a coordinated public awareness and education campaign.
- Increase transparency, efficiency, and alignment of state and local coastal resilience processes, policymaking, and decision-making.

4. Support Local Leadership and Address Local Conditions

- Support local planning and adaptation policies and projects that address local and regional conditions, meet baseline standards for climate impacts, and consider acute increases in SLR caused by storm surges, El Niños, and other events.
- Evaluate and learn from local conditions, including community priorities, health and safety, critical infrastructure, housing, culture, economies, patterns of development, local environment, and other characteristics, to inform risk tolerance and adaptation.
- Prioritize the early protection of and capacity building for the most underresourced and vulnerable frontline communities in developing and implementing adaptation plans, projects, and strategies.

5. Strengthen Alignment around Coastal Resilience

- Develop and apply baseline, Administration-wide SLR assumptions, projections, targets, terms, and standards into coastal projects, retrofits, planning, funding, regulatory, and permitting initiatives. Consider statewide decision-making guidelines to help identify the strongest solutions, establish priorities, and ensure baseline success. Prioritize avoidance of initiatives that shift hazards and impacts elsewhere along the coast or shoreline.
- Ensure that up-to-date SLR resilience planning is in place coastwide and includes alignment on: minimum baseline targets; vulnerability assessments for communities, infrastructure, property, and natural ecosystems and native species; SLR economic impact assessments, including the cost of resiliency projects and the potential cost of no action; and identification of multi-benefit SLR resiliency strategies.
- Collaboratively work to pursue and develop specific funding sources for state, regional, and local coastal resilience planning, projects, and public outreach.
- Where possible, avoid creating unnecessary duplication of existing state agency authority.



6. Implement and Learn from Coastal Resilience Projects

- Protect and enhance public trust natural and cultural resources, such as beaches, wetlands, other habitats, biodiversity, and culturally important areas.
- Protect critical public water-dependent infrastructure, ports, harbor districts, and other evolving public trust needs and uses, given the unique characteristics, significance, constraints, and values of these public trust uses.
- Prioritize the use of nature-based adaptation measures where appropriate.
- Build coastal resilience by increasing the number of restoration and adaptation projects, such as wetland restoration; ensure that adaptation projects do not shift hazards and impacts elsewhere along the coast or shoreline.
- Streamline permitting for high-need coastal restoration projects.
- Realize multiple benefits from coastal resilience projects where feasible.
- Take action to prevent impacts from SLR to public access as feasible, toward the continued protection and enhancement of public coastal access for all.

7. Integrate and Prioritize Equity and Social Justice

- Integrate and prioritize equity and social justice, including Tribal justice, in all aspects of state actions focused on building SLR adaptation and resilience.
- Develop and prioritize sea level rise projects that ensure benefits to vulnerable communities, meaningfully involve residents in the decision-making process, address environmental justice and systemic inequities, and implement relevant state agency equity and environmental justice plans and policies.



Endorsing and Participating Entities

In early 2020 Secretary Crowfoot, California Natural Resources Agency (CNRA) and Secretary Blumenfeld, California Environmental Protection Agency (CalEPA) convened two high-level meetings of 17 state agencies (listed below under Participating Entities) to develop and approve Sea Level Rise Principles for use in planning, policy setting, project development, and decision making. The Principles have been endorsed by both CNRA and CalEPA secretaries and all departments within these agencies. The Principles are a living document, and formal endorsement of the Principles from other agencies will be added as received.

Endorsing Entities

Wade Crowfoot, Secretary, CNRA, and CNRA Agencies Jared Blumenfeld, Secretary, CalEPA, and CalEPA Agencies Betty Yee, State Controller



Participating Entities

CNRA CalEPA SF Bay Conservation and Development Commission California Coastal Commission California Energy Commission California Department of Fish and Wildlife Caltrans Delta Stewardship Council Department of Water Resources Ocean Protection Council Governor's Office of Planning and Research Office of Emergency Services State Coastal Conservancy State Lands Commission State Parks State Water Resources Control Board Strategic Growth Council