

Long Beach | Sept. 25, 2018

PREVENTION FIRST



California State Lands Commission





The Commission's jurisdiction over sovereign lands is rooted in the **Public Trust Doctrine**. Tide and submerged lands and the beds of lakes, streams, and other navigable waterways are held in trust by the State of California for the benefit of the people of California.

- 4 million acres
- 120 rivers and sloughs
- 40 lakes
- Thousands of miles of non-coastal shorelines
- 1100 miles of coastline
- 3 nautical miles offshore

California State Lands Commission

What We Do



- Issue leases to use public trust lands
- Oversee marine oil terminals
- Oil spill prevention
- Regulate marine invasive species

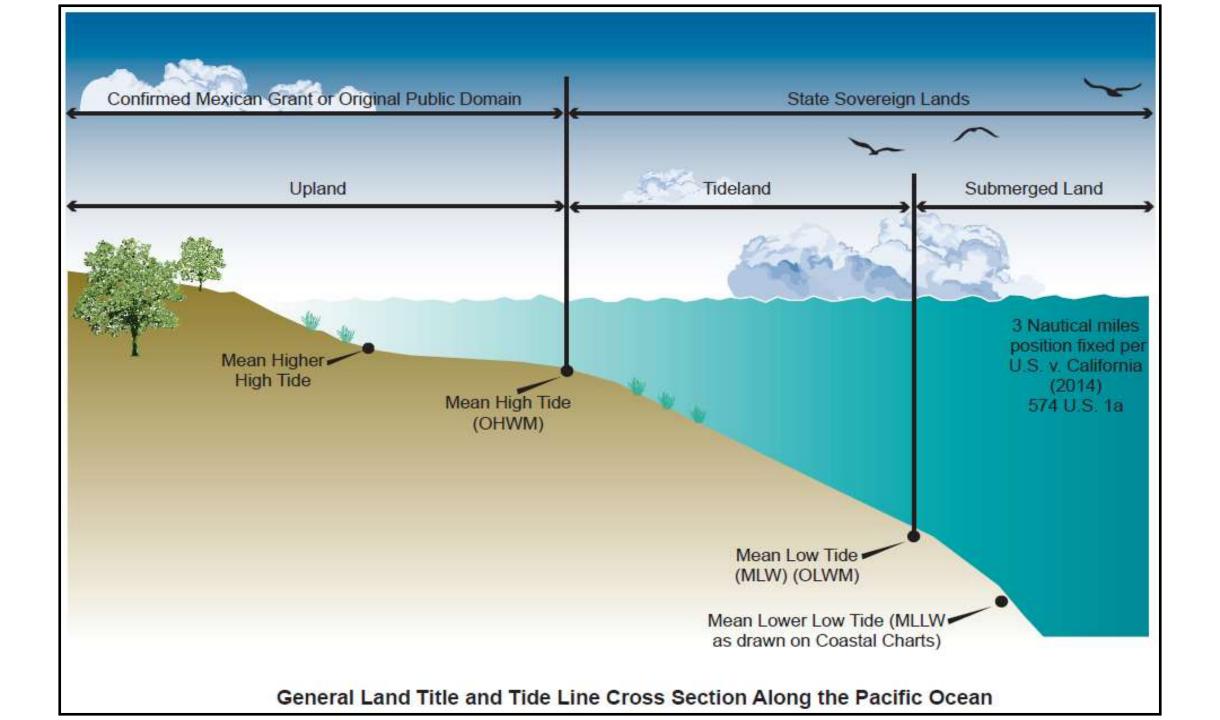




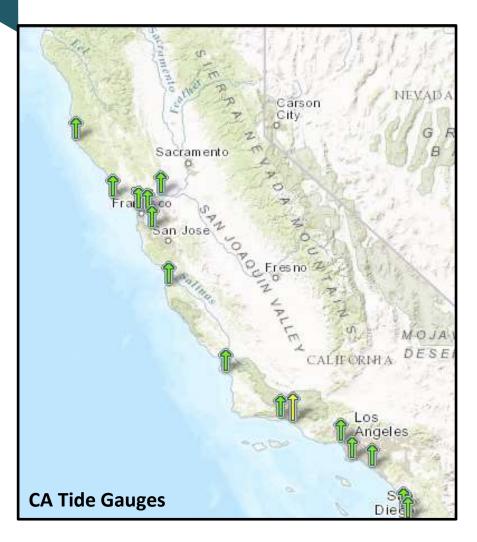








California's Changing Coast



- Sea-level rise is already occurring
- CA coastal resources including ports, natural habitats, beaches, wetlands, public access, and recreation are extremely vulnerable
- 2017 State Sea-Level Rise Science report reflects potential for accelerated pace and extreme scenario





Low risk aversion scenario: 4 ft by 2130

Med-high risk aversion scenario: 4 ft by 2080

H++ scenario:4 ft after 2060

Efforts to Address Sea-Level Rise

Partner With Grantees - AB 691

- AB 691 (Muratsuchi, 2013)
 - Sea-level rise assessments for granted lands w/ revenues\$250k/year
 - Submissions due July 1, 2019
- Protect and adapt Public Trust lands, assets, & resources
- Develop recommendations to support local implementation efforts





Lands Commission

NON-INTERVENTION

Eroding bluff in Pacifica, CA (Photo credit: Eric

Cheng)

SHORT-TERM

MID-TERM

LONG-TERM

ACCOMMODATE &

RELOCATE

PROTECT

PROTECT & ACCOMMODATE

SOFT APPROACH

Systematic beach

nourishment

SOFT APPROACH

- Edging
- Sills
- Vegetation only
- Horizontal levees
- Berms

PHASED RETREAT

HARD APPROACH

- Breakwater
- Caisson
- Groin
- Revetment
- Bulkhead
- Seawall

SOFT APPROACH

 Emergency beach nourishment



Dauphin Island East End beach nourishment, AL (Photo credit: Bret M. Webb)



Seawall in Venture, CA (Photo credit: UCSD)



Edging project in New Smyrna Beach, FL (Photo

credit: Florida Living Shorelines)

Efforts to Address Sea-Level Rise





CALIFORNIA'S FOURTH

ASSESSMENT

CLIMATE CHANGE









California's Climate Adaptation Strategy | January 2018













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