Strategy Mapping to Guide the Conservation of Coastal Habitats

Walter N. Heady, Brian Cohen, Mary G. Gleason, Joshua N. Morris, Kirk R. Klausmeyer, Sarah Newkirk, Hilary Walecka, Liz Gagneron, Mary Small
Given sea level rise and existing land cover and management is no net loss possible?
Coastal California

- Biodiverse
- 67% natural habitat
- 31% conserved
- supports 159 imperiled species
Characterized larger coastal area for landscape conservation context

HABITATS:
- 22 wetland types
- 18 terrestrial types

BUILT ENVIRONMENT:
- 17 types
Habitat specific vulnerability

22 wetland types
18 terrestrial types

- **Resilient Conserved Habitat**
- **Resilient Non-conserved Habitat**
- **Vulnerable Conserved Habitat**
- **Vulnerable Non-conserved Habitat**

Species of concern
159 imperiled species
3 marine mammal
3 shorebird – nesting
59% of the area of California's coastal habitats is highly vulnerable to 5 feet of sea level rise.
Conserve and Manage for Resilience

- **Resilient Conserved Habitat**
  Maintain the resilience and conservation status of existing conservation land.

- **Resilient Non-conserved Habitat**
  Invest in conserving resilient landscapes.

- **Vulnerable Conserved Habitat**
  Manage in place for resilience to help habitat keep pace with sea level rise.

- **Vulnerable Non-conserved Habitat**

- **Potential Future Habitat**

- **Exposed Built Environment**

### Map

- **Conserved Habitat**
- **Non-conserved Habitat**
- **Undeveloped Uplands**
- **Built Environment**

**North Coast**

**Central Coast**

**South Coast**
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Mitigate Potential Losses of Vulnerable Habitats

- **Vulnerable Non-conserved Habitat**
  Mitigate potential losses by adapting adjacent built environment and/or investing in potential future habitat.

- **Potential Future Habitat**
  Invest in conservation and management that allows vulnerable habitat to transgress inland.

- **Exposed Built Environment**
  Adapt the built environment to enhance habitat area and function.

- **Conserved Habitat**

- **Non-conserved Habitat**

- **Undeveloped Uplands**

- **Built Environment**
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61%

We could mitigate more than half the losses from subtidal inundation by investing in potential future habitat.
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Legend:
- **Conserved Habitat**
- **Non-conserved Habitat**
- **Undeveloped Uplands**
- **Built Environment**
Hope for the Coast Campaign

VISION:
We will maintain and enhance California’s coast in the face of sea level rise, other climate change-induced challenges, and development. By working collectively and guided by science, we will ensure the coast is protected for future generations to enjoy, replete with as much or more habitat and wildlife, as well as social, economic, and recreational benefits, as we have today.
Hope for the Coast
Strategies to Conserve Coastal Habitats in the face of Sea Level Rise

Walter Heady
Coastal Marine Scientist
The Nature Conservancy
wheady@tnc.org

http://coastalresilience.org/project/hope-for-the-coast/