

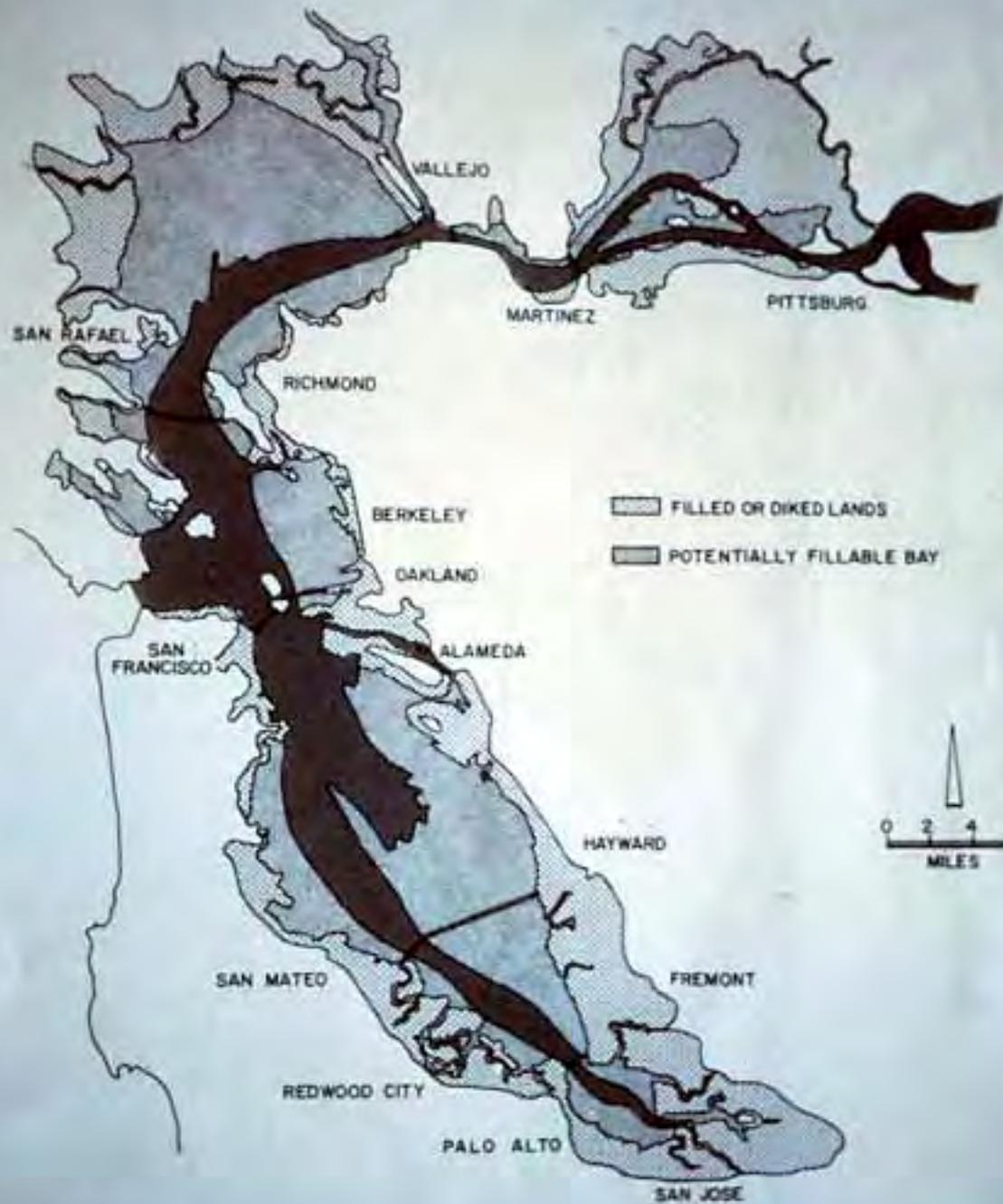


Climate Change & San Francisco Bay

February 25, 2009









MISSION ACCOMPLISHED

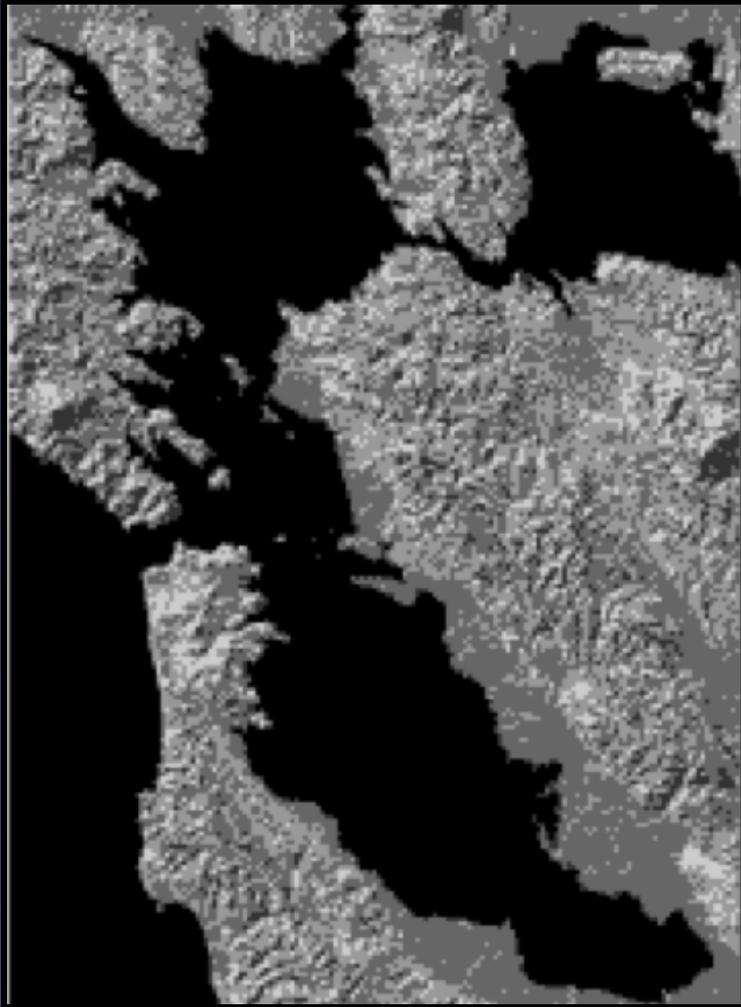
Climate Change

- * Research
- * Planning
- * Implementation
- * Partnerships

Research

- * Inundation Mapping
- * Corte Madera Study
- * EPA Climate Ready Estuary (CRE) Pilot
- * NASS Study
- * Design Competition

1849



2100



Inundation Mapping



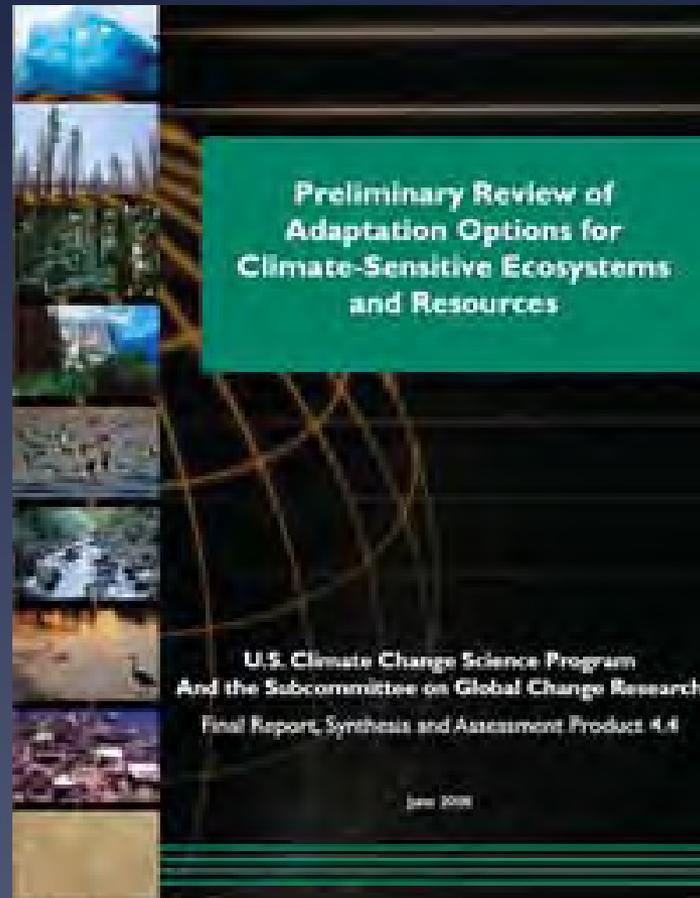
Corte Madera Study



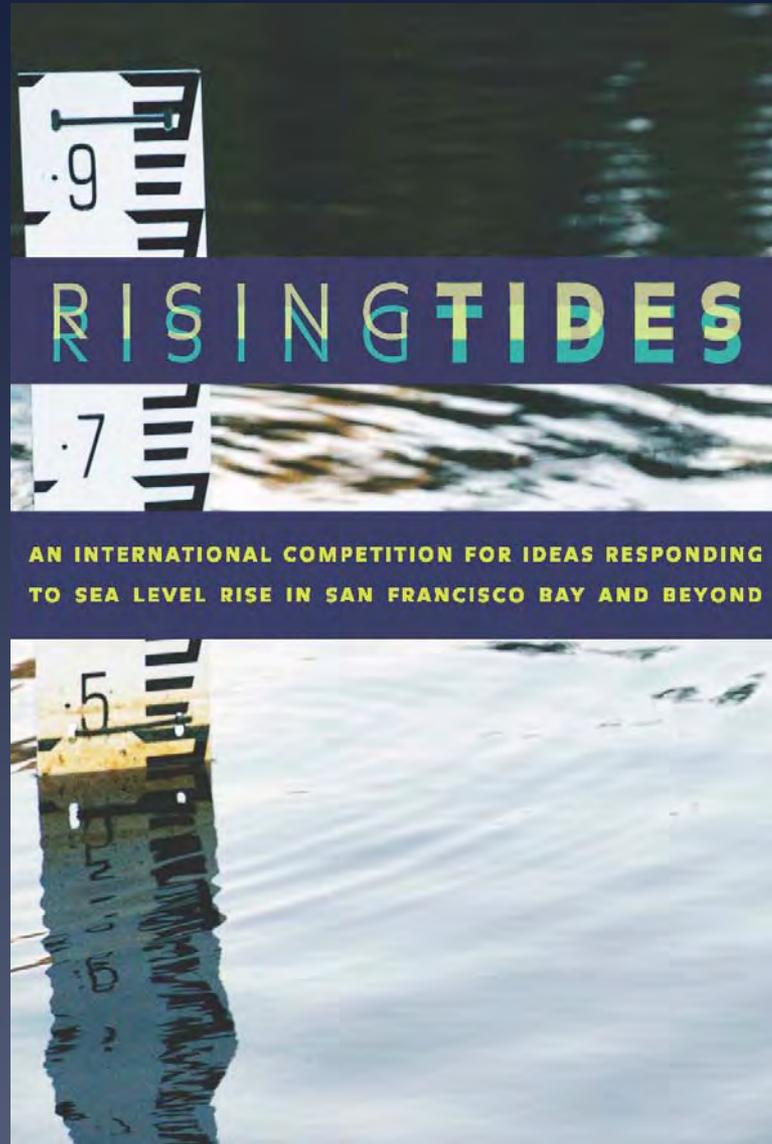
Climate Ready Estuaries Pilot



Climate Ready Estuaries Pilot

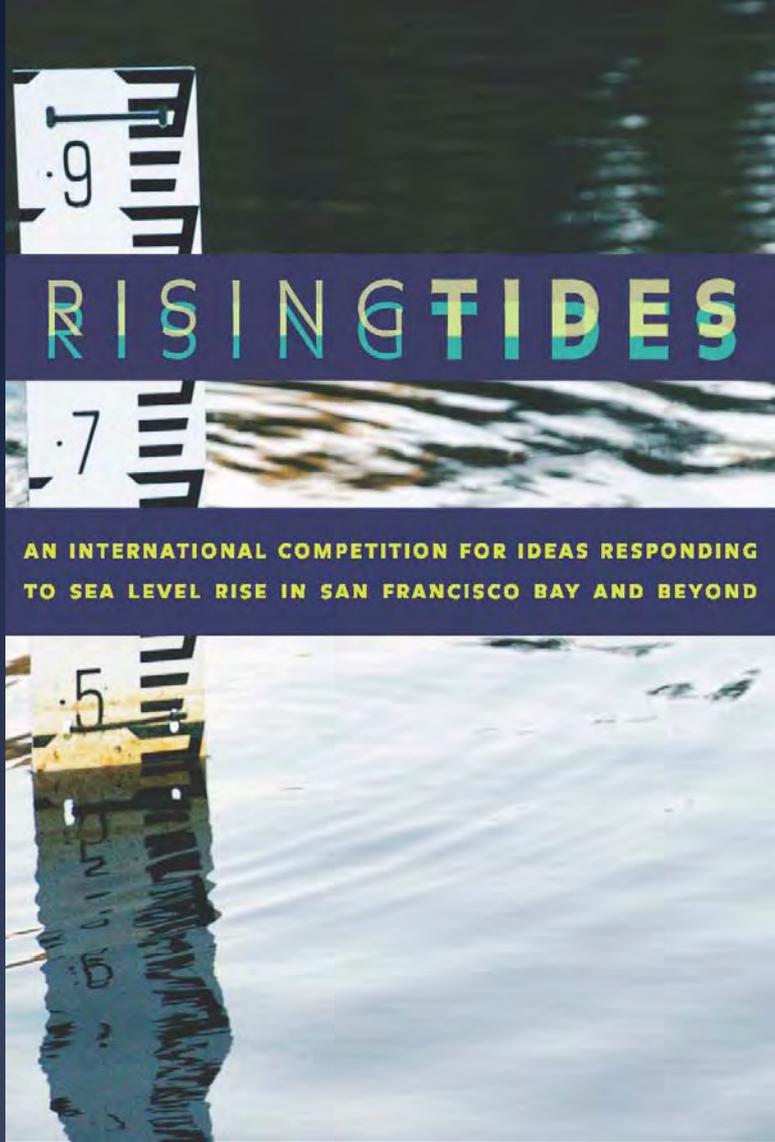


Design Competition









Looking for new ideas

Encouraging inter-disciplinary teams

Make big bucks.

California's Climate Change Adaptation Programs and Initiatives

Executive Order S-13-08

Sea Level Rise

- * Recognizes the need for statewide consistency in planning for sea level rise
- * **Proposes NAS panel to conduct sea level rise assessment by 12/01/10**
- * Directs state agencies to consider a range of scenarios in project planning to reduce risks in the interim

Climate Adaptation Strategy

- * CA Natural Resources Agency coordinates and completes by June 30, 2009



CA Coastal Conservancy: Climate Change Adaptation Initiatives



- ***2007 Strategic Plan:*** impacts of climate change must be considered in prioritizing project expenditures. Contains strategic directives to:

“Incorporate latest scientific understanding of sea-level rise into consideration when planning facilities”

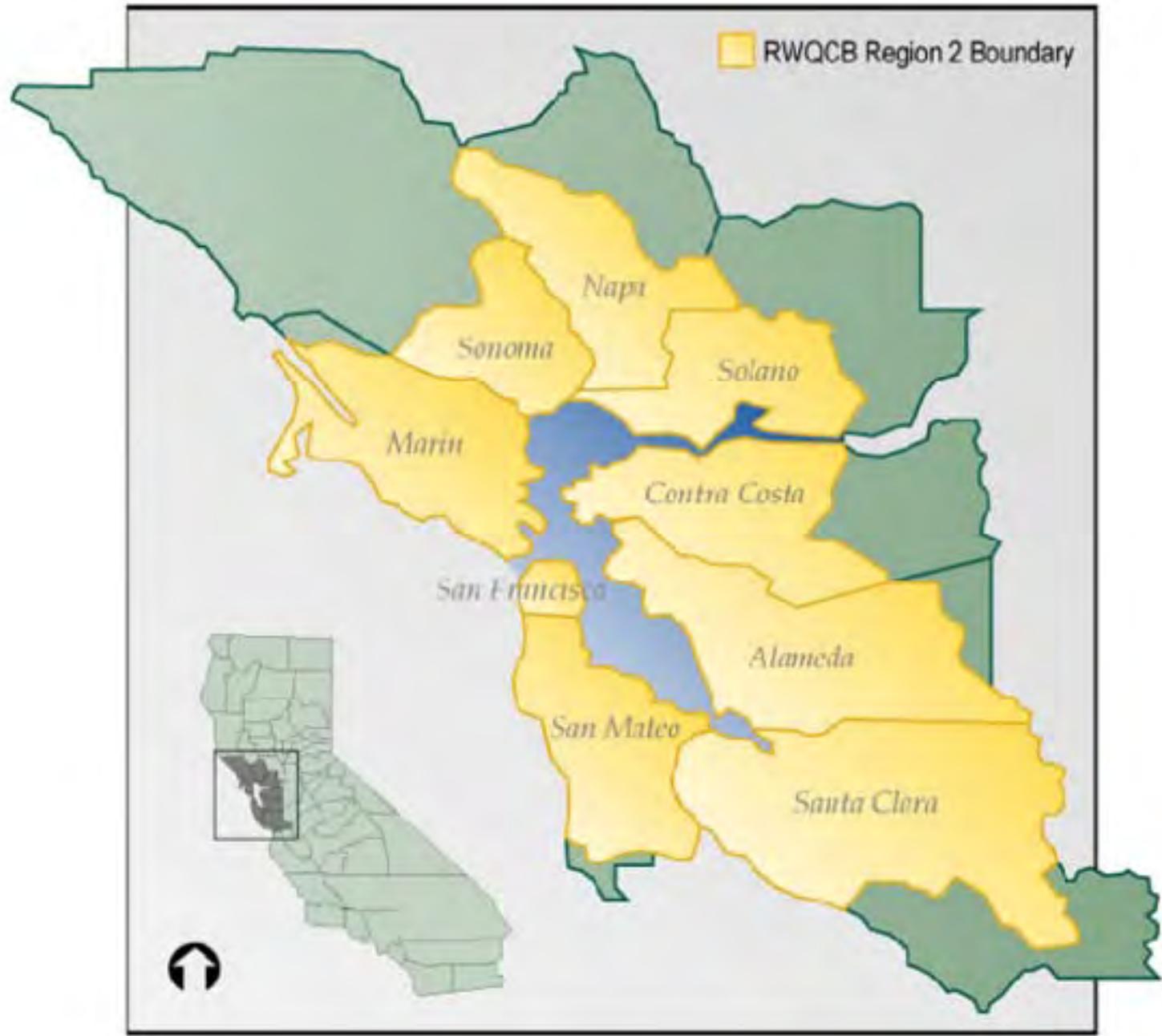
“Incorporate predicted evolutions in habitat due to climate change when planning restoration and enhancement”

Coastal Impact Assistance Plan (CIAP) Regional Sediment Management





RWQCB Region 2 Boundary





DREDGING PROJECTS

- * Federal Channels
- * Ports
- * Refineries
- * Marinas



Planning

- * Bay Plan Amendment
- * State Climate Strategy
- * CRE Adaptation Plan

Implementation

- * New Bay Plan
- * New Legislation
- * Local Government Outreach

Partnerships

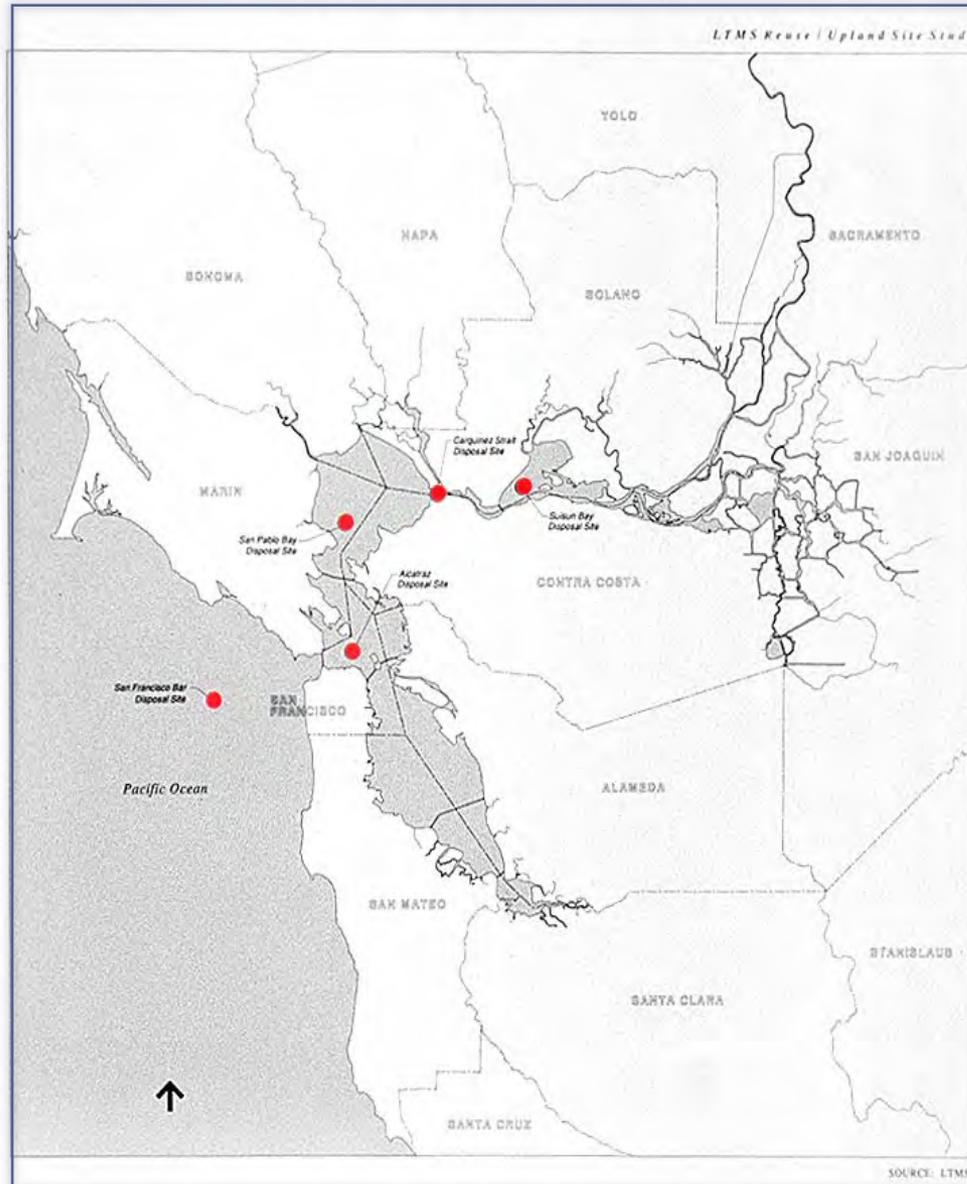
- * Joint Policy Committee
- * EPA & Estuary Project
- * Marin County Flood Control District
- * The Dutch



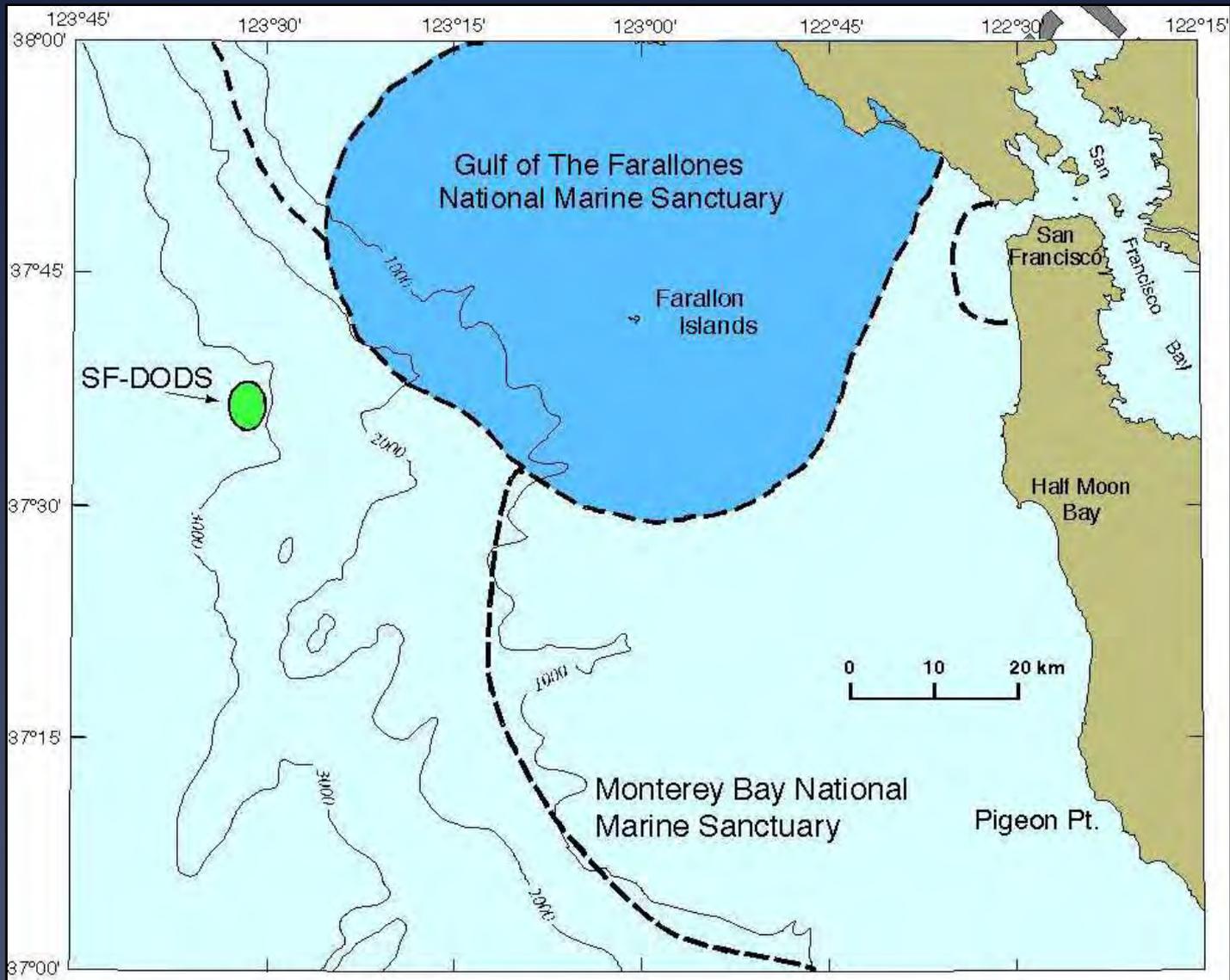
IN-BAY SITES

- * Alcatraz
- * San Pablo Bay
- * Carquinez Strait
- * Suisun Channel

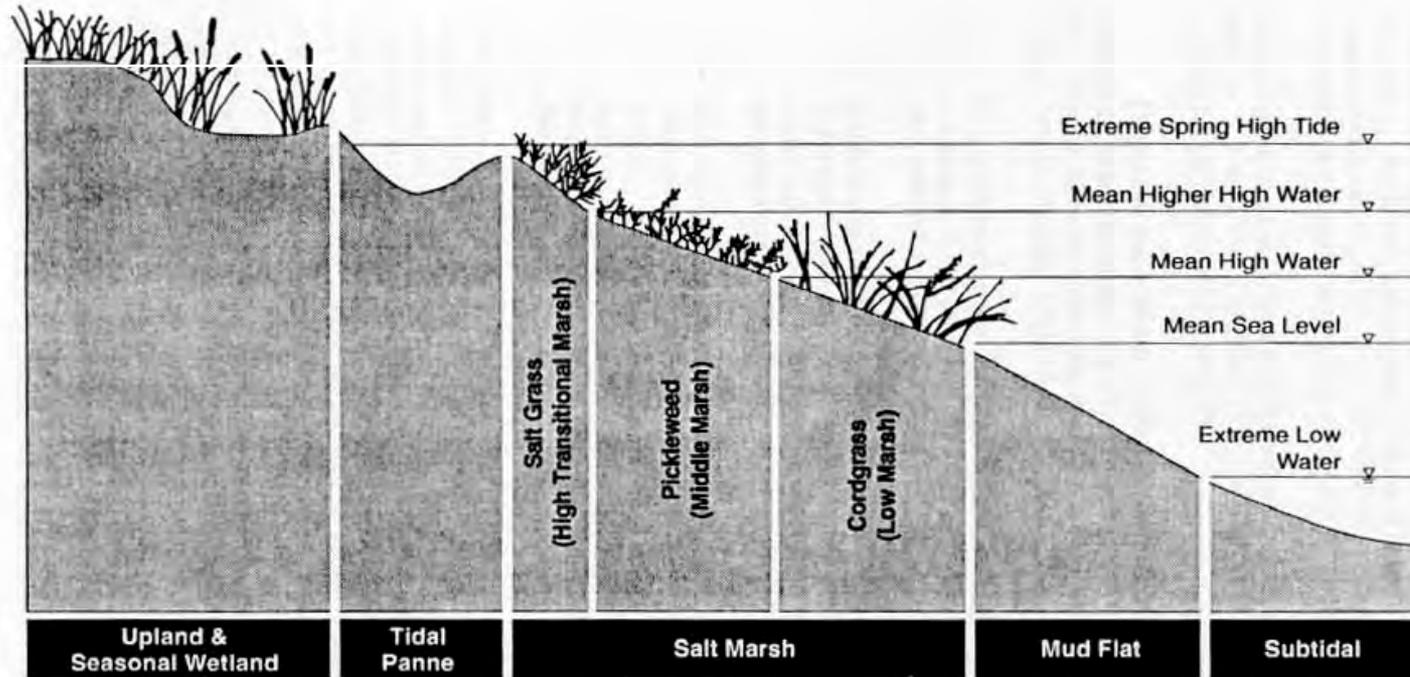
AQUATIC DISPOSAL SITES



DEEP OCEAN DISPOSAL SITE



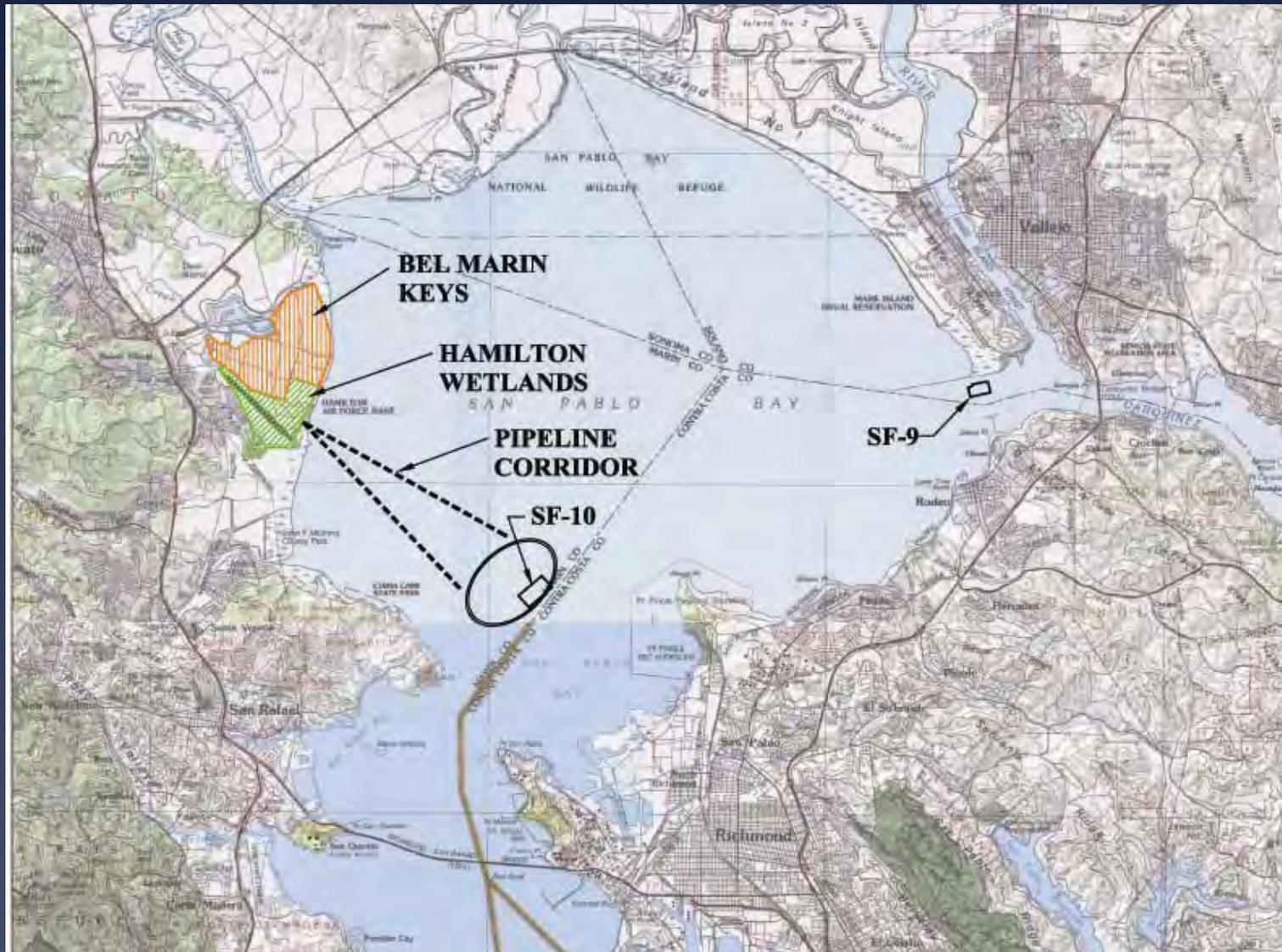
WETLANDS HABITAT RANGES



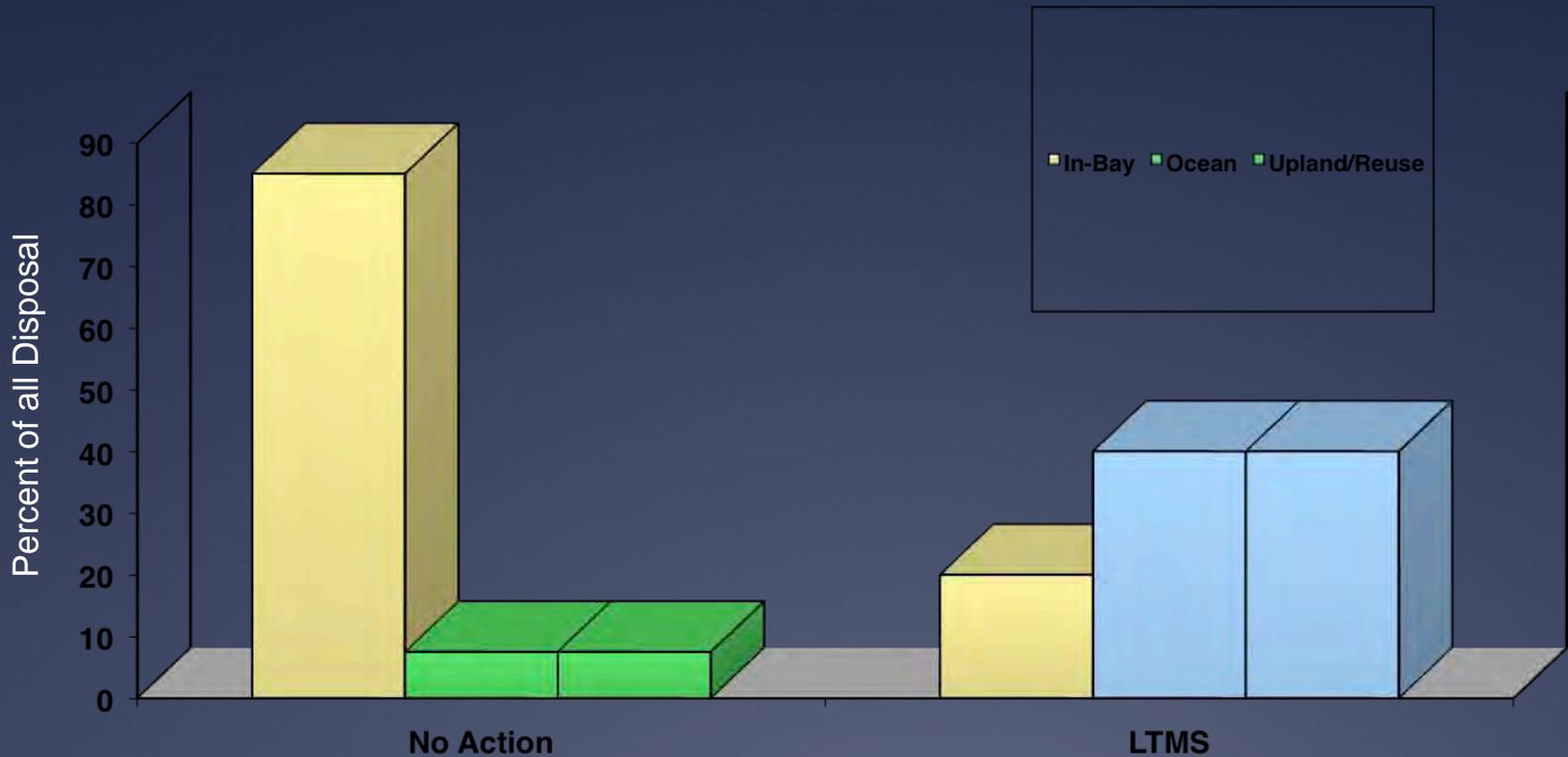
SONOMA BAYLANDS



PLACEMENT OF DREDGED SEDIMENT ON RESTORATION SITES



FINAL EIS/ EIR LTMS MANAGEMENT STRATEGY FOR THE PLACEMENT OF DREDGED SEDIMENT IN THE BAY AREA



FROM DREDGING MANAGEMENT TO REGIONAL SEDIMENT MANAGEMENT

- * Base Regional Sediment Management on existing governance structure
- * Include analysis of sediment supply, transport, budget and restoration needs
- * Address flood control, sand mining, dredging and nourishment projects

FUNDING FOR REGIONAL SEDIMENT MANAGEMENT

- * Awarded a California Impact Assistance Program grant
- * Requesting California Sediment Management Work Group funding
- * Additional support...

Climate Terms



* Resilience

The ability of a system to rebound from a disturbance to its prior state.

Example: Public access improvements that can be flooded occasionally without damage.

Climate Terms



Mitigation

Reducing or preventing production of greenhouse gases (GHGs)

Example: Shifting from petrochemical to solar energy generation

Climate Terms

Adaptation

Responding to the impacts of climate change.

Example: Building new structures at elevations above predicted flooding from climate change.

