



Day 1: May 13, 2021

WHAT IS NATURE-BASED ADAPTATION & WHY DO WE NEED IT

9:00 am Welcome

Introduction

James Eggers

Exec. Director, Sierra Club, Loma Prieta Chapter

9:10 am Why we need Nature Based Adaptation

Bay as living ecosystem and value of marshes, inter-tidal habitats , sub-tidal habitats , problems of a dead bay

John Bourgeois,

Valley Water, formerly with
South Bay Salt Pond Restoration Project

9:30 am Adapting to Rising Seas using Nature's Jurisdictions

The Adaptation Atlas -A critical science-based framework for adaptation strategies appropriate for the diverse shoreline of the Bay providing guidance for using nature-based options

Julie Beagle

US Army Corps of Engineers
formerly with SF Estuary Institute

9:50 am The Importance of the Bay's Habitats to Migratory and Resident Birds and its International Importance

The threats to these habitats from sea level rise

Julian Wood

Point Blue Conservancy

10:10 am Panel Q&A 3 speakers

10:30 am --5 minute break

10: 35 am Carbon Sequestration and Greenhouse Gas Budgets in Restored Tidal Wetlands Importance of restoration, ability of tidal wetlands to sequester carbon – findings from a Bay Area study, Voluntary carbon credit for blue carbon in Climate Action Plans

Patty Oikawa

California State University, East Bay

10:55 am Federally Listed Species: the Value of Marshes and Urgency of Partnerships

Tidal wetlands endangered species & why should we care?

Valary Bloom

US Fish and Wildlife Service, Sacramento

11:15 am How Tidal Wetlands and Nature-Based Infrastructure Support a Clean, Healthy San Francisco Bay

How tidal wetlands help protect water quality and beneficial uses of waters of the state, Multi-benefit projects

Christina Toms

Regional Water Quality Control Board

11:35 am Panel Q&A 3 speakers

11:55 am Closing Remarks

James Eggers

DAY 2: May 20, 2021

WHERE TO USE NATURE-BASED ADAPTATIONS

How does Nature-Based Adaptation work; how long does it last; where is it best used

9:00 am Welcome: Recap of first webinar, topics of this webinar series, topics of third webinar series

Virginia Reinhart
Exec. Director, Sierra Club SF Bay Chapter

9:10 am Introduction: “A levee is not always the answer”

Establish urgency and Importance of planning for a healthy Bay with living shorelines. How to get there? Projects that have been funded and those that can be funded. Phased adaptation projects

Dave Pine
San Francisco Bay Restoration Authority

9:30 am Ecology of the Bay Past and Future

Ecological history of the bay, wetland formation and loss, future expansion. Importance of living solutions for long term benefits

Robin Grossinger
San Francisco Estuary Institute

9:50 am Climate Change, Bay Wetlands, and Actions we can take

How projected climate change may impact Bay wetlands and how to make them more resilient

Letitia Grenier
San Francisco Estuary Institute

10:10 am Panel Q&A 3 speakers

10:30 am 5 minute break

10:35 am Beaches as an Alternative to Riprap and Walls for Eroding Shorelines

Aramburu Island Beach creation for resilience and other locations

Roger Leventhal
Marin County Public Works

10:55 am Value of Oyster beds and Eel Grass Meadows

Potential for Carbon sequestration and other Eco-services they provide. Can we get back to food from the bay?

Marilyn Latta
California State Coastal Conservancy

11:15 am Funding Sources and Funding Requirements: SFBay

Restoration Authority, USACA, Coastal conservancy, Fed funds thru EPA, SFBay Jt Venture

Amy Hutzel
California State Coastal Conservancy

11:35 am Panel Q&A 3 speakers

11:55 am Closing Remarks

Virginia Reinhart

DAY 3: May 27, 2021

GREENING THE PROJECT: FUNDING AND CASE STUDIES

Nature Based Adaptation strategies are now solicited by many agencies funding resilience solutions

9:00 am Welcome, recap of first two webinars, topics of this webinar series

Jeff Morris
Exec. Dir, Sierra Club Redwood Chapter

9:10 am Case Studies of Natural and Nature-Based Features in Adaptation Strategies

Jeremy Lowe
San Francisco Estuary Institute

Sonoma Baylands, Hamilton Airfield, Middle Harbor Oakland
Richmond Marsh, Alameda creek
Ora Loma - horizontal levee, Hwy 37 and marsh restoration
Sediments, Station Island

9:40 am North Richmond Shoreline Multi-Benefit Project

Josh Bradt
San Francisco Estuary Partnership

A community-informed plan for climate-ready adaptations along the North Richmond shoreline with a focus on the upland transition zone, environmental justice and resiliency

10:00 am Summary of sea level rise adaptation legislation

Hon. Kevin Mullin
Assembly Speaker Pro-Tem, District 22

Bills on Sea Level Rise and Resilience Bond

10:20 am Panel Q&A 3 speakers

3 speakers

10:35 am 5 min break

10:40 am San Francisco Bay Water Quality Improvement Fund

Luisa Valiela
Environmental Protection Agency

Integration of Clean Water Act programs including wetlands and watershed planning, SFBay Water Quality Improvement Fund and restoration of wetlands

11: 00 am Easing the Funding Challenge

James Muller
San Francisco Estuary Partnership

Meeting goals of the SFEP or Comprehensive Conservation Management Plan helps get applicants EPA funds and with cross agency partnerships SFEP will play a role in getting other EPA money.

11:20 am FEMA's Funding and Requirements for Nature Based Adaptation Solutions

Alison Kearns
Federal Emergency Management Agency
(FEMA)

FEMA's new programs that support climate resilience

11:40 am Panel Q&A 3 speakers

11:55 am Closing Remarks for webinar series

James Eggers
Exec. Director, Sierra Club Loma Prieta

Future topics on the Bay and Adaptation to Sea Level Rise