



Science Symposium 2022
CELEBRATING OUR SCIENCE

A Virtual Symposium • Open to Everyone • May 11-12

DAY 1: WEDNESDAY, MAY 11

9:00 – 9:20 WELCOME

Symposium Welcome and Introductions

Donna Ball • Lead Scientist (South Bay Salt Pond Restoration Project)

Dave Halsing • Executive Project Manager (South Bay Salt Pond Restoration Project)

9:20 – 9:50 SESSION 1: PROJECT OVERVIEW

Phase 2 Project Status

Dave Halsing

Science Program Update

Donna Ball

9:50 – 10:50 SESSION 2A: POND-DEPENDENT BIRDS • MODERATOR: LAURA CHOLODENKO

Migratory Monitoring in Salt Ponds: Recent Trends and Future Directions

Gabbie Burns • San Francisco Bay Bird Observatory

Phalarope Migration and Use of South Bay Salt Ponds

Gabbie Burns

Breeding Waterbird Ecology and Management for the SBSRP

Josh Ackerman • United States Geological Survey

Panel Q & A (15 min)

Gabbie Burns, Josh Ackerman

10:50 – 11:10 BREAK

11:10 – 12:10 SESSION 2B: POND DEPENDENT BIRDS • MODERATOR: BECCA CARNIELLO

Characterizing Environmental Drivers of Macroinvertebrate and Biofilm Food Resources for Waterbirds Using the South Bay Salt Pond Restoration Project

Susan De La Cruz • United States Geological Survey

Keeping Dry Ponds as Part of Wetland Restoration? A Summary of Snowy Plover Recovery Efforts in the South Bay Salt Pond Restoration Project

Ben Pearl • San Francisco Bay Bird Observatory

Motus: Western Expansion, New Taxa and Scalable Science in CDFW/Motus in the South Bay

Levi Souza • California Department of Fish and Wildlife
Katie LaBarbera • San Francisco Bay Bird Observatory

Panel Q & A (15 min)

Susan De La Cruz, Ben Pearl, Levi Souza, Katie LaBarbera

12:10 – 1:30 SESSION 3: WILDLIFE • MODERATOR: DONNA BALL

California Ridgway's Rail Range-Wide Surveys and Population Estimate

Julian Wood • Point Blue Conservation Science

Assessing the Aquatic Health of San Francisco Bay's Tidal Wetlands

Levi Lewis • University of California, Davis

Nests, Nests, Everywhere: Adaptive Management in Action at Pond A19

Laura Coatney • Alluvion Biological Consulting
Rachel Tertes • United States Fish and Wildlife Service

Panel Q & A (15 min)

Julian Wood, Levi Lewis, Laura Coatney, Rachel Tertes



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DAY 2: THURSDAY, MAY 12

9:00 – 9:10 WELCOME

Welcome to Day 2

Donna Ball
Matt Brown • Don Edwards National Wildlife Refuge
John Krause • CA Department of Fish and Wildlife

9:10 – 10:10 SESSION 4: HABITAT • MODERATOR: RACHEL TERTES

Mapping Marshes and Mudflats From Space: Preliminary Results (2019 & 2021) from the Habitat Evolution Mapping Project (HEMP) 2.0

Brian Fulfrost • Brian Fulfrost and Associates

Large Transition Zone, Large Equipment: Employing Heavy Farming Equipment as One of Many Tools to Revegetate High-acreage Transition Zone Slopes

Jessie Olson • Save The Bay

Breach It and They Will Come: Invasive Plants are the Uninvited Guests to the South Bay Salt Pond Restoration Party

Drew Kerr • Kerr Ecological Solutions

Panel Q & A (15 min)

Brian Fulfrost, Jessie Olson, Drew Kerr

10:10 – 11:10 SESSION 5: MERCURY AND WATER QUALITY • MODERATOR: APRIL ROBINSON

South San Francisco Bay Salt Pond Restoration Project – A Synthesis of Phase 1 Mercury Studies

Mark Marvin-DiPasquale • United States Geological Survey

The Link Between Nutrient Dynamics and Water Quality in the Lower South Bay

Ariella Chelsky • San Francisco Estuary Institute

Panel Q & A (15 min)

Mark Marvin-DiPasquale, Ariella Chelsky

11:10 – 11:30 BREAK

11:30 – 12:30 SESSION 6: SEDIMENT • MODERATOR: EVYAN BORGNIS SLOANE

Temporal Variability in Sediment Delivery to Whale’s Tail South Marsh in South San Francisco Bay

Jessie Lacy • United States Geological Survey

Understanding Marsh Characteristics to Inform Sea-Level Rise vulnerability in South San Francisco Bay

Karen Thorne • United States Geological Survey

Continuous Suspended Sediment Concentration and Wave Monitoring in South and Lower South San Francisco Bay

Lilia Mourier • San Francisco Estuary Institute

Panel Q & A (15 min)

Jessie Lacy, Karen Thorne, Lilia Mourier

12:30 – 1:30 SESSION 7: SCIENCE COLLABORATION • MODERATOR: DAVE HALSING

Using A Nature-Based Approach to Connect Creeks to Baylands in South San Francisco Bay

Judy Nam • Santa Clara Valley Water District

Implementing a Large-Scale, Multi-Benefit Wetland Restoration Project: The South San Francisco Bay Shoreline Project Phase 1

Evyan Borgnis Sloane • State Coastal Conservancy

Clean Soil for New Tidal Wetlands - An Overview of the Soil Quality Assurance Process

Gavin Archbald • H.T. Harvey & Associates

Panel Q & A (15 min)

Judy Nam, Evyan Borgnis Sloane, Gavin Archbald

1:30 – 2:00 OPEN HOUSE