

# Dr. Janet Walker

Ecologist

Biology Department

Southern California Coastal Water Research Project

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## Education

Ph.D., ecology, San Diego State University and University of California, Davis, CA, 2020

B.S., environmental science, University of Virginia, Charlottesville, VA, 2015

## Professional Experience

Senior Scientist, Southern California Coastal Water Research Project, 2023-Present

Scientist, Southern California Coastal Water Research Project, 2020-2023

Data analyst, San Diego State University, 2019-2020

Graduate Fellow, U.S. National Park Service, Cabrillo National Monument, 2018-2019

Visiting Researcher, The Tjärnö Marine Biological Laboratory, University of Gothenburg, Sweden, 2017

Teaching Assistant, Ecology and the Environment, San Diego State University. 2016-2017

Teaching Assistant, Career Discovery Group, University of California, Davis. 2017-2018

Teaching Assistant, Ecology and the Environment, San Diego State University. 2015-2016

## Professional Appointments

Co-chair, California Estuarine Monitoring Workgroup (CEMW), 2023-Present

Advisor, Southern CA Wetlands Recovery Program Science Advisory Panel, 2023-Present

Advisor, Aliso Creek Estuary Restoration Science Advisory Team, 2023-Present

Executive Board Member, California Estuarine Research Society (CAERS), 2020-Present

Applicant Reviewer, SACNAS National Diversity in STEM Conference. 2019

## Honors and Awards

Achievement Rewards for College Scientists (ARCS) Foundation, 2019

Point Reyes National Seashore Association's (PRNSA), Neubacher, Marine Science Grant, 2019

COAST Graduate Student Research Award Program, 2019

San Diego State University Joint Doctoral Program, Student Research Grant, 2019

Achievement Rewards for College Scientists (ARCS) Foundation, 2018

The Wetland Foundation, Field Travel Grant, 2018

San Diego State University Joint Doctoral Program, Student Research Grant, 2018

Achievement Rewards for College Scientists (ARCS) Foundation, 2017

San Diego State University Joint Doctoral Program, Student Research Grant, 2017

Garden Club of America Award in Coastal Wetlands Studies, 2017

Society of Wetland Scientists Student Research Grant, 2017

San Diego State University, Graduate Student Travel Fund, 2017

San Diego State University Joint Doctoral Program, Student Research Grant, 2016

San Diego State University Joint Doctoral Program, Student Research Grant, 2015

Mahlon G. Kelly Prize for outstanding undergraduates in ecology, 2015

## Selected Presentations and Conference Proceedings

Walker, J.B., E. Stein, K. O'Connor, K. Nichols, M. Clemens, A. Barrera, and M. Hall. Developing a sentinel site network to build capacity for assessing wetland recovery and resiliency. Oral Presentation, H2O Conference. November 29-30, 2023. Ventura, CA.

Walker, J.B., E. Stein, K. O'Connor, R. Clark, C. Whitcraft, B. Hughes, J. Largier, D. Jacobs, and C. Toms. Monitoring for management: A modular, ecosystem function-based assessment framework to assess estuarine condition. Oral Presentation, Coastal Estuarine Research Federation. November 13-16, 2023. Portland, OR.

Walker, J.B. Monitoring for management: An ecosystem function-based approach to estuarine assessment. Invited speaker. California State University Long Beach Biology Seminar Series. March 9, 2023. Long Beach, CA.

Walker, J.B., J. Lorda, R. Beas, C. Whitcraft, and E. Stein. Binational monitoring for fish community support and indicators of tropicalization. Oral Presentation, American Fisheries Conference, Cal-Neva. March 2, 2023. Long Beach, CA.

Walker, J.B., and J. Lorda. Translational ecology: Integrative science to elevate science. Assessment of coastal lagoons. Invited contributor. Presidential symposium. Western Society of Naturalists. November 11-13, 2022. Oxnard, CA.

Walker, J.B., and E. Stein. Assessing resiliency in dune habitats to inform coastal management. Oral Presentation, ASBPA National Coastal Conference. September 13-16, 2022. Long Beach, CA.

Walker, J.B., E.D. Stein, K. O'Connor, R. Clark. Modular Monitoring Framework to Assess Performance of Coastal Wetland Management. Oral Presentation, Joint Aquatic Sciences Meeting. May 14-20, 2022. Grand Rapids, MI.

Walker, J.B., R. Clark, A. Baldo Cooper, S. Garcia, D. Gillett, W. Heady, B. Hughes, K. Irving, D. Jacobs, J. Largier, K. O'Connor, R. Roettger, E. Stein, C. Toms, and C. Whitcraft. 2021. A framework for condition assessment and monitoring of estuary MPAs in California. Oral Presentation, Coastal and Estuarine Research Federation.

Walker, J.B., R. Clark, K. O'Connor, and E. Stein. 2021. A framework for bioassessment and monitoring of California's estuaries. Oral Presentation and session organizer, California Aquatic Bioassessment Workgroup & California Chapter of Society for Freshwater Science annual meeting.

Walker, J.B., E.D. Grosholz, and J.D. Long. 2020. Crab impacts on cordgrass depend upon crab communities and edaphic conditions. Oral Presentation, Western Society of Naturalists.

Walker, J.K., E.D. Grosholz, and J.D. Long. 2019. The consequences of burrowing crabs for plant community composition and restoration. Oral Presentation, Coastal and Estuarine Research Federation.

Walker, J.K., E.D. Grosholz, and J.D. Long. 2018. Crab identity and density drive site-specific effects of burrowing crabs on plant community composition. Oral Presentation, California Estuarine Research Society.

Walker, J.K., E.D. Grosholz, and J.D. Long. 2018. Plant tissue, species, and population influence palatability for a salt marsh burrowing crab. Oral Presentation, Western Society of Naturalists.

Walker, J.K., and J.D. Long. 2018. Site-specific effects of burrowing crabs on plant community composition in California salt marshes. Oral Presentation, Society of Wetland Scientists.

Walker, J.K., and J.D. Long. 2017. Site-specific effects of burrowing crabs on plant community

composition in California salt marshes. Oral Presentation, Coastal and Estuarine Research Federation.

Walker, J.K., and J.D. Long. 2016. Burrowing crabs alter salt marsh plant community composition. Poster Presentation, Western Society of Naturalists.

Walker, J.K., A.L. Bijak, and L.K. Blum. 2015. Spatial and genetic structure of *Spartina alterniflora* at four spatial scales in Virginia salt marshes. Oral Presentation, Coastal and Estuarine Research Federation.

Walker, J.K., A.L. Bijak, and L.K. Blum. 2015. Potential relationship between salt marsh dieback and the genetic diversity and spatial structure of *Spartina alterniflora*. Poster Presentation, Department of Environmental Sciences, Research Forum. University of Virginia, Charlottesville.

## Journal Articles

Rinehart, S.A., J.M. Dybiec, J.B. Walker, L. Simpson, J.A. Cherry. 2024. Effects of burrowing crabs on coastal sediments and their functions: A systematic meta-analysis. *Ecosphere* 15:e4927.

Rinehart, S.A., J.M. Dybiec, P. Richardson, J.B. Walker, J.D. Peabody, J.A. Cherry. 2024. Researcher effects on the biological structure and edaphic conditions of field sites and implications for management. *Ecosphere* DOI:10.1002/ecs2.4750.

Walker, J.B., D.J. Gillett, M. Sutula. 2022. Establishing biologically relevant sediment organic matter thresholds for estuaries and embayments of the Southern California Bight, USA. *Ecological Indicators* 143:1-12.

Walker, J.B., S. Rinehart, G. Greenberg-Pines, W.K. White, R. DeSantiago, D.A. Lipson, J.D. Long. 2022. Aboveground competition influences density-dependent effects of cordgrass on sediment biogeochemistry. *Ecology and Evolution* 12:e8722.

Walker, J.B., E.D. Grosholz, J.D. Long. 2021. Predicting burrowing crab impacts on salt marsh plants. *Ecosphere* 12:e03803.

Walker, J.B., A.L. Bijak, L. Blum. 2021. Genetic Diversity and Clonal Structure of *Spartina alterniflora* in a Virginia Marsh. *Northeastern Naturalist* 28:357-370.

Walker, J.B., S.A. Rinehart, W.K. White, E.D. Grosholz, and J.D. Long. 2020. Local and regional variation in effects of burrowing crabs on plant community structure. *Ecology* 102(2):e03244. DOI: 10.1002/ecy.3244

# Technical Reports

Stein, E.D., J.B. Walker, K. O'Connor, C. Toms. 2023. Estuary Marine Protected Area - Monitoring Program Implementation Blueprint. Technical Report 1315.C. California Ocean Protection Council. Sacramento, CA.

O'Connor, K., R. Clark, B. Fulkerson, J.B. Walker, E.D. Stein, C. Whitcraft, S. Garcia. 2023. Estuary Marine Protected Area - 2021 Data Analysis Report. Technical Report 1315.B. California Ocean Protection Council. Sacramento, CA.

Walker, J.B., E.D. Stein, K. O'Connor, R. Clark, C. Whitcraft, S. Garcia, B. Hughes, A. Cooper, D. Jacobs, M. Abrecht, J. Largier, R. Roettger, C. Toms. 2023. Estuary Marine Protected Area - Monitoring Protocol. Technical Report 1315.A. Ocean Protection Council. Sacramento, CA.

Stein, E.D., J.B. Walker, K. O'Connor, R. Clark, C. Whitcraft. 2023. Development of a Statewide Estuary Monitoring Program to Evaluate California's Estuarine Marine Protected Areas - Estuary Marine Protected Area Program Overview. Technical Report 1315. California Ocean Protection Council. Sacramento, CA.

Gillett, D.J., W. Enright, J.B. Walker. 2022. Southern California Bight 2018 Regional Monitoring Program: Volume III. Benthic Infauna. Technical Report 1289. Southern California Coastal Water Research Project. Costa Mesa, CA.