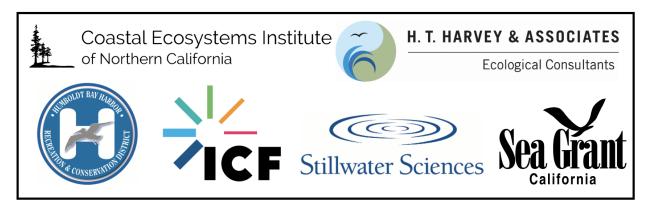
2021 Humboldt Bay Symposium: Sustainable Blue Economy

September 28-30, 2021; 10:00 a.m. to 2:30 p.m. PT



Thank you to our generous symposium sponsors:



Day 1 - September 28, 2021; 10 a.m. to 2:30 p.m.

Morning Session: Blue carbon, Sediment, and Climate Impacts

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10:00-10:05	Welcome and Logistics
	Joe Tyburczy, California Sea Grant; Humboldt State University
10:05-10:10	Symposium Welcome
	Ted Hernandez, Wiyot Tribe
10:10-10:35	Impacts of Climate Change on Estuarine Ecology
	Tom Suchanek, UC Davis Dept. of Wildlife, Fish and Conservation Biology;
	Coastal and Marine Sciences Institute/Bodega Marine Laboratory
10:35-11:00	Blue Carbon Storage in California Salt Marshes
	Lauren Brown, Louisiana Universities Marine Consortium
11:00-11:20	Salt Marsh Edge Erosion and Retreat in Humboldt Bay
	Chase Freeman, USGS - Western Ecological Research Center
11:20-11:35	Geomorphic Response to Changes in Eelgrass Cover in Humboldt Bay
	Whelan Gilkerson, Merkel & Associates, Inc
11:35-11:45	Sediment Management Challenges and Opportunities in Humboldt Bay
	Adam Wagschal, Humboldt Bay Harbor, Recreation and Conservation District
11:40-11:55	Carbon Implications of Upland Watershed Restoration
	Mary Ann Madej, Coastal Ecosystems Institute of Northern California
11:55-12:00	Watersheds as Amplifiers of Climate Change in Humboldt Bay
	Jenny Curtis, USGS - California Water Science Center
12:00-12:30	LUNCH
Afternoon Ses	sion: Restoration and Ecology
12:30-12:45	Are Longfin Smelt Alone in the San Francisco Estuary?
	Colin Brennan, ICF
12:45-12:55	Bull Kelp Decline in Northern California
	Gina Contolini, California Sea Grant; California Department of Fish and Wildlife
12:55-1:15	Kelp Recovery and Research in California
	James Ray, California Department of Fish and Wildlife
1:15-1:30	Collaborative, Landscape-Level Conservation in Humboldt Bay
	Mike Cipra, Friends of the Dunes
1:30-1:35	BREAK
1:35-1:50	Ocean Ranch Restoration Project – 2021 Updates
	Natalie Washburn, Ducks Unlimited
1:50-2:10	Results from Eelgrass and Wasting Disease Monitoring in Humboldt Bay
	Kevin Landaw, Humboldt State University
2:10-2:30	Unmanned Aerial Systems and Remote Sensing for Restoration Practitioners
	Ian Pryor, Stillwater Sciences

Day 2 - September 29, 2021; 10 a.m. to 2:30 p.m.

Morning	Session.	Sustainable	Rlue	Fconomy
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10:00-10:20 **Keynote: Sustainable Blue Economy** Wade Crowfoot, California Secretary of Natural Resources 10:20-11:15 **Panel: Sustainable Blue Economy Moderator:** Sharon Kramer, H. T. Harvey & Associates and CEINC Julie Benbow, Humboldt County Visitors Bureau Stephen Kullmann, Humboldt Bay Harbor, Recreation and Conservation District Matt Marshall, Redwood Coast Energy Authority John Driscoll, District Representative for Congressman Jared Huffman (CA-2) Rick Zechman, Assoc. Dean of HSU College of Natural Resources and Sciences Rafael Cuevas Uribe, HSU Department of Fisheries Biology Karen Gray, GreenWave 11:20-12:00 Panel: Development of a Regional Conservation Investment Strategy for **Humboldt Bay** Moderator: Bernadette Clueit, ICF Adam Wagschal, Humboldt Bay Harbor, Recreation and Conservation District Aaron Gabbe, ICF Hank Seemann, Humboldt County Public Works Ami Olson, California Department of Fish and Wildlife 12:00-12:30 **LUNCH** Afternoon Session: Restoration and Ecology 12:30-12:50 **Elk River Estuary and Tidal Enhancement Project** Katie Marsolan, City of Eureka 12:50-1:00 The Jacoby Creek Enhancement Project: Conservation through Community Stephanie Mietz, Jacoby Creek Land Trust Star Struck: Continental-scale Collapse of Sunflower Sea Stars from Sea Star 1:00-1:20 Wasting Disease and What We Can Do About It! Sarah Gravem, Oregon State University 1:20-1:40 The White Slough Restoration Project: Rebuilding a Marsh with Imported Fill Conor Shea, U.S. Fish & Wildlife Service 1:40-2:00 Investigating the Genetic Basis of Resident and Anadromous Life-histories of **Coastal Cutthroat Trout and Hybridization with Steelhead** Sam Rizza, Stillwater Sciences 2:00-2:10 South Jacoby Wetland Restoration and Enhancement – Adaptive Management Emily Benvie, City of Arcata — Environmental Services 2:10-2:30 **Ecological Enhancement Through Change in Water Rights**

Michelle Fuller, Humboldt Bay Municipal Water District

Day 3 - September 30, 2021; 10 a.m. to 2:30 p.m.

Organized by:



Humboldt State University Sea Level Rise Initiative

Morning Session: Sea Level Rise

10:00-10:10	Welcome & Introduction to the Humboldt State University Sea Level Rise Initiative (SLRI)
	HSU SLRI Co-Chairs: Laurie Richmond, HSU Environmental Science &
	Management; Adam Canter, Wiyot Tribe-Table Bluff Reservation Natural
	Resources Department
10:10-10:25	Humboldt Bay SLR Planning: Past, Present, and Future
	Aldaron Laird, Environmental Planner; former Co-Chair HSU SLRI
10:25-10:35	Surf and Turf: How Active Tectonic Processes Contribute to Sea-Level Rise in
	Coastal Northern California
	Jason "Jay" R. Patton, P.G., Ph.D., Engineering Geologist, California Geological
	Survey, Seismic Hazards Program, Tsunami Unit
10:35-10:40	BREAK
10:40-10:45	Exploring Community Knowledge and Perceptions of Flooding and Sea-Level
	Rise in King Salmon, California
	Kristina Kunkel, Sea Level Rise Consultant; HSU SLRI Member
10:45-10:50	Social Science Research on Regional Coordination and Collaboration of Sea
	Level Rise Planning and Adaptation on Humboldt Bay
	Kristen Orth-Gordinier, HSU Graduate Student; SLRI Member
10:50-10:55	Cultural Continuity and Revitalization under SLR
	Hilanea Wilkinson, Wiyot Tribe – Table Bluff Reservation Natural Resources
	Department; HSU SLRI Member
10:55-11:00	Where Do We Go from Here? Sea Level–Rise Risk to a Spent Nuclear Fuel
	Site on Humboldt Bay
	Jennifer Marlow, HSU Environmental Science & Management; SLRI Member
	Alexander Brown, HSU Graduate Student; SLRI member
11:00-11:05	Environmental Resources Engineering Senior Capstone Designs for Sea Level
	Rise Mitigation on Humboldt Bay
	Eileen Cashman, Chair of HSU Environmental Resources Engineering
	Department; SLRI member

11:05-11:10	Prioritizing Contaminated Sites at Risk from SLR	
11.05 11.10	Jen Kalt, Humboldt Baykeeper; SLRI member	
11:10-11:30	Questions	
11:30-11:40	The Economics of Sea Level Rise in California: with an Application to	
	Humboldt Bay	
	Philip G. King, San Francisco State University, Economics Department	
11:40-11:50	State Policy Update	
	Kip Lipper, Office of the California Senate President pro Tempore	
11:50-12:00	Questions	
12:00-12:30	LUNCH	
Afternoon Sessions: Sea Level Rise Planning and Adaptation		
12:30-2:00	Panel: Regional SLR Planning on Humboldt Bay	
	Humboldt County	
	City of Eureka	
	City of Arcata	
	Humboldt Bay Harbor, Recreation and Conservation District	
	Wiyot Tribe - Table Bluff Reservation	
	California Coastal Commission	
2:00-2:20	Questions	
2:20-2:25	Closing Statements	
	Laurie Richmond, HSU Environmental Science & Management	
	Adam Canter, Wiyot Tribe - Table Bluff Reservation Natural Resources	
	Department	
2:25-2:30	Closing Statements	
	Joe Tyburczy, California Sea Grant; Humboldt State University	