CERF 2023 CONFERENCE PROGRAM *Program is subject to change.

Saturday, 11 November

Start Time	End Time	Event	Type	Location
4:00 PM	7:00 PM	Registration Open	General	Pre-function Space Lobby D
6:00 PM	8:00 PM	Rising TIDES Conference Program Welcome Reception (by invitation)	Rising TIDES	Hyatt Regency Hotel Multnomah Room

Sunday, 12 November

Start Time	End Time	Event	Type	Location
7:00 AM	5:00 PM	Registration Open	General	Pre-function Space Lobby D
7:00 AM	6:00 PM	Family Lounge	Family Friendliness	F152
8:00 AM	1:00 PM	Conference Ombuds Walk-In Consultation Hours	Conference Ombuds	G130
8:00 AM	4:30 PM	Salmon River Estuary Tour | SOLD OUT	Field Trip	Salmon River Estuary
8:00 AM	4:30 PM	Cascade Head Hike | SOLD OUT	Field Trip	Cascade Head
8:00 AM	4:45 PM	Rising TIDES Conference Program Sunday Workshop (by invitation)	Rising TIDES	Portland Ballroom 255
8:00 AM	6:00 PM	Inclusive Leadership Program (by invitation)	Special Event (by invitatio	F149
8:00 AM	8:00 PM	Rising TIDES Lounge	Rising TIDES	Portland Ballroom 256
9:00 AM	12:00 PM	Study, Track, remOve & Prevent: Using Hands on Marine Debris Surveys to Teach the Scientific Method	Workshop	D135
9:00 AM	12:00 PM	Food for Thought: How Coasts Nourish Our Bodies and Communities	Workshop	D137-138
9:00 AM	5:00 PM	Dashboards: Using R to Create Actionable Science	Workshop	E145
9:00 AM	5:00 PM	Tableau for Environmental Science: Easy Data Analysis, Mapping, and Sharing	Workshop	E146
10:00 AM	12:00 PM	Fostering Inclusive Fieldwork Experiences	Workshop	D139- 140
10:00 AM	5:30 PM	Steigerwald Wildlife Rescue and Multnomah Falls	Field Trip	Steigerwald Wildlife Rescue and Multnomah Falls
11:00 AM	1:00 PM	Student Worker Orientation and Training	Student/Early Career Even	E142-143
12:00 PM	5:00 PM	Speaker Presentation Room	General	F151
1:00 PM	4:00 PM	Removing Barriers for Students in CERF Disciplines: Tools for Advocacy	Workshop	D139- 140
1:00 PM	5:00 PM	Adapting Technology for SAV Mapping and Monitoring	Workshop	D135
1:00 PM	5:00 PM	Application Tips and Tricks for Early Career Professionals	Workshop	D137-138
4:30 PM	5:30 PM	CERF 2023 VIP Reception (by invitation)	Special Event (by invitatio	G 131-132
5:00 PM	5:45 PM	First-Timer Orientation	General	E142-143
5:30 PM	6:30 PM	Ambassadors Orientation	General	E146
6:00 PM	8:00 PM	Opening Ceremony, Keynote Address, & Achievement Awards	Keynote	Portland Ballroom 253-254, 257-258
8:00 PM	10:00 PM	Silent Auction Opens	General	Exhibit Hall DE
8:00 PM	10:00 PM	Presidents' Welcome Reception with Exhibitors	Social Event	Exhibit Hall D-E
8:00 PM	10:00 PM	Conference Ombuds Walk-In Consultation Hours	Conference Ombuds	G130

Monday, 13 November

Start Time	End Time	Event	Type	Location
6:00 AM	8:00 PM	Rising TIDES Lounge	Rising TIDES	Portland Ballroom 256
6:15 AM	7:15 AM	CERFers on the Run	Social Event	Pre-function Space Lobby D
6:30 AM	8:00 AM	Mentorship Program Breakfast (by invitation)	Special Event (by invitatio	Portland Ballroom 251- 252
7:00 AM	5:00 PM	Registration Open	General	Pre-function Space Lobby D
7:00 AM	5:00 PM	Speaker Presentation Room	General	F151
7:00 AM	6:00 PM	Family Lounge	Family Friendliness	F152
7:30 AM	4:30 PM	Child Care	Family Friendliness	G 131-132
8:00 AM	9:30 AM	**Compound Coastal Extremes**	Oral	D135
		8:00 - 8:15 AM Probabilistic compound flood risk assessment for Long Island, NY and Long Island Sound (NY/CT)		
		8:15 - 8:30 AM Compound coastal-fluvial urban flood forecasting by combining statistical, hydrodynamic and machine learning modeling		
		8:30 - 8:45 AM Modeling pluvial compounding of coastal floods within a coupled modeling framework		
		8:45 - 9:00 AM Assessing compound coastal flooding in San Francisco Bay with a hybrid statistical dynamical approach		

		9:00 - 9:15 AM Computational analysis of flood depth and flow velocity in flood transition zones during extreme events		
		9:15 - 9:30 AM Assessing the hurricane-induced saltwater intrusion in Huston-Galveston region: a dynamically coupled hydrological-ocean modeling approach		
8:00 AM	9:30 AM	**Estuarine Fauna**	Oral	E141
		8:00 - 8:15 AM Urbaniztion driving Ocypode quadrata burrow density, depth, and width across Caribbean beaches		
		8:15 - 8:30 AM Increasing seagrass cover reduces seasonality of epifaunal predation risk with implications for grazer diversity		
		8:30 - 8:45 AM Grateful for the dead: dead foundation species drive ecosystem dynamics		
		8:45 - 9:00 AM The role of a faunal engineer (Geukensia demissa) in modifying carbon and nitrogen regulation services		
		9:00 - 9:15 AM Analysis of animal activity within mangrove wetlands on St Thomas, US Virgin Islands		
		9:15 - 9:22 AM Invertebrate grazing on live turtlegrass (Thalasisa testudinum): a common interaction that can facilitate fungal infection		
8:00 AM	9:30 AM	**High-Impact Practices in Coastal and Estuarine Science Education**	Oral	D139-140
		8:00 - 8:15 AM Living shoreline monitoring as an authentic course-based research opportunity for undergraduates		
		8:15 - 8:23 AM MRNE 220L, Teaching Physical Oceanography Laboratories to Undergraduate Marine Science Majors: Cooperative Projects and Research		
		8:23 - 8:30 AM Incorporating high impact teaching practices in a first year experience university level course		
		8:30 - 8:45 AM Benefits of a long-term university and K-12 partnership for coastal science education		
		8:45 - 9:00 AM The USVI Storm Strong Program: bringing coastal resilience to classrooms in the U.S. Virgin Islands		
		9:00 - 9:15 AM Sea-Level Rise in the Classroom: Utilizing high impact practices to foster formal resilience education		
		9:15 - 9:23 AM Mangroves in the Classroom: A highschool mangrove education project in St. Thomas, U.S Virgin Islands		
		9:23 - 9:30 AM Transferring scientific knowledge about coastal ecosystems to lifelong learning initiatives		
8:00 AM	9:30 AM	**Mud, Macrofauna, and Microbes - An Ode to Benthos V**	Oral	E142-143
		8:00 - 8:15 AM Investigating the Influence of Seagrass Sediment Structure on Sediment Metabolism: An Integrated Approach		
		8:15 - 8:30 AM Long-term decline in benthos is linked to climate change		
		8:30 - 8:45 AM Invertebrate diversity in two estuarine lagoons of the Southern California Bight, Mexico		
		8:45 - 9:00 AM Holding your breath for hypoxia monitoring tools? Applying M-AMBI in the northern Gulf of Mexico		
		9:00 - 9:08 AM A versatile benthic incubation chamber design for assessing community metabolism		
		9:08 - 9:15 AM The role of parasites in structuring mudflat benthic algae communities		
		9:15 - 9:30 AM Old carbon and the astonishing resiliency of High Arctic lagoon benthic communities		
8:00 AM	9:30 AM	**Research for Sustainable Crab Fisheries Management**	Oral	E144
		8:00 - 8:15 AM The importance of temperature and diatom flux in defining suitable juvenile Alaska crab habitat		
		8:15 - 8:30 AM A year in the life: tracking post-larval cohorts of Dungeness crab in an estuarine system		
		8:30 - 8:45 AM Estimating movement of Dungeness crab among Puget Sound spatial management areas using Floy anchor tags		
		8:45 - 9:00 AM Efficacy of the Chesapeake Bay blue crab spawning stock sanctuary in a changing climate		
		9:00 - 9:15 AM Towards sustainable management of swimming crab fisheries in the United States and Indonesia		
		9:15 - 9:30 AM Evaluating current and alternative management practices to reduce derelict shellfish pot impacts in Puget Sound		
8:00 AM	9:30 AM	**Weaving Traditional Ecological Knowledge (TEK) and Coastal Science for Management Application**	Oral	D136
		8:00 - 8:15 AM Linking Indigenous, local, and scientific knowledge to support Puget Sound ecosystem recovery		
		8:15 - 8:30 AM Assessing coastal wetland resiliency of a Louisiana Tribe - integrating biophysical prediction and traditional ecological knowledge		
		8:30 - 8:45 AM Preserving Laguna Madre: Mexico's Cultural Heritage and Vital Ecosystem for Sustainable Development		
		8:45 - 9:00 AM Importance of culture: alternative oyster cultivation can be used to enhance equity among indigenous peoples		
		9:00 - 9:30 AM Panel Discussion		
8:00 AM	11:30 AM	**Coastal Wetland Restoration and Management: Consequences for Biogeochemical Processes and Fluxes**	Oral	E146
		8:00 - 8:15 AM Hydrologic alteration and restoration impacts on nitrogen cycling across a spatial gradient		
		8:15 - 8:30 AM Impacts of TLP on microbially mediated nitrogen removal pathways in a temperate salt marsh		
		8:30 - 8:45 AM Variability in nutrient and carbon cycling of created marshes in Beaufort, NC		
		8:45 - 9:00 AM Controlled burns may alter the fate of nitrate in coastal marshes		
		9:00 - 9:15 AM Rapid peat development beneath created, maturing mangrove forests: ecosystem changes across a 25-year chronosequence		
		9:15 - 9:30 AM Optimizing salt marsh restoration for marsh resilience and carbon storage using a carbon-sediment transport model		
		10:00 - 10:15 AM The importance of marsh development to the success of restored Poplar Island, Chesapeake, MD marshes		
		10:15 - 10:30 AM The effects of upper estuary saltwater influxes in the tidally-restricted Herring River, Cape Cod, MA		
		10:30 - 10:45 AM Methane cycling in a recently rewetted coastal peatland		
		10:45 - 11:00 AM Restoration and land management as drivers of greenhouse gas fluxes in brackish coastal wetlands		

		11:00 - 11:15 AM Coastal wetland restoration and management: consequences for biogeochemical processes and fluxes		
		11:15 - 11:30 AM Establishing ecological and biogeochemical baselines to evaluate tidal impoundment impacts and post-restoration ecosystem trajectories		
8:00 AM	12:00 PM	Conference Ombuds Walk-In Consultation Hours	Conference Ombuds	G130
8:00 AM	2:30 PM	**ECM: Estuarine and Coastal Modeling-Day 1**	Oral	D133-134
		8:00 - 8:15 AM Integrating diagnostic ecological models into ecosystem research		
		8:15 - 8:30 AM Modeling oyster reef and salt marsh resilience in response to spatially varied hydrodynamic conditions		
		8:30 - 8:45 AM Investigating salinity and temperature tolerances of Grass Shrimp (Palaemon spp.)		
		8:45 - 9:00 AM Numerical Simulation of Oyster Larvae Dispersion and Settlement in Apalachicola Bay under Different Climate Regimes		
		9:00 - 9:15 AM Estuarine nutrient pollution impact reduction assessment through euphotic zone avoidance/bypass considerations		
		9:15 - 9:30 AM The value of modeling nutrient loads and discussions on ecosystem function in Puget Sound		
		10:00 - 10:15 AM Towards a mechanistic modeling framework for simulating eutrophication in estuaries		
		10:15 - 10:30 AM Using 3D hydrodynamic modeling and HSPF-WASP water quality modeling to understand spatiotemporal variations of eutrophication		
		10:30 - 10:45 AM Modeling fate and transport of PCBs in Puget Sound to understand loading and accumulation pathways		
		10:45 - 11:00 AM Hydrodynamic Effects of Floating Vegetation on Lake Seminole, GA - Data Analysis and Future Modeling		
		11:00 - 11:15 AM An estuarine case study of a coupled coastal-groundwater modeling framework for evaluating compound flooding		
		11:15 - 11:30 AM Total Water Elevation Prediction at the Continental Scale		
		1:00 - 1:15 PM Forecasting compound floods in coastal transition zones using STOFS-3D		
		1:15 - 1:30 PM Development of rapid flood risk assessment methodology for U.S. military installations and surrounding communities		
		1:30 PM - 1:45 ***withdrawn***		
		1:45 - 2:00 PM The effects of tropical cyclone-driven storm surges on Dauphin Island, Alabama		
		2:00 - 2:15 PM Coastal ocean response to Hurricane Ian as revealed by a coordinated observing and modeling system		
		2:15 - 2:30 PM Considering Sea Level Rise in the Minimum Flow Evaluation for the Lower Peace River Estuary in Southwest Florida		
8:00 AM	2:30 PM	**Effects of Human Modifications of Estuaries**	Oral	E145
		8:00 - 8:15 AM Flow modification, increased water age, and cyanobacterial blooms in the Sacramento-San Joaquin Delta		
		8:15 - 8:30 AM Investigating the ecological effects of historical artificial channels on Sapelo Island, Georgia		
		8:30 - 8:45 AM A first look at seagrass populations in Baffin Bay, a semi-arid estuary in South Texas		
		8:45 - 9:00 AM Legacy mercury remobilization induced by wetland restoration in South San Francisco Bay, California		
		9:00 - 9:08 AM Collaborative science to inform water quality restoration in an urbanized, impounded estuary		
		9:08 - 9:15 AM Assessing downstream water quality impacts from reservoir releases and basin input in an engineered watershed		
		9:15 - 9:23 AM Assessing the system-wide effects of a major change in wastewater discharge to an estuary		
		9:23 - 9:30 AM Measuring the impact of tidal restoration in a restricted estuary with thermal infrared remote sensing		
		10:00 - 10:15 AM Effects of saltwater overwash events on water quality in the Duck Harbor basin, Wellfleet, MA		
		10:15 - 10:30 AM Shifting macrophytes: Thalassia and Caulerpa support unique ecological communities		
		10:30 - 10:38 AM Quantifying the impacts on biodiversity of future shoreline modification approaches		
		10:38 - 10:45 AM Trace elements in skin and teeth of bottlenose dolphins (Tursiops truncatus) as habitat use indicators		
		10:45 - 10:53 AM Using aquatic eDNA to understand how a century of water diversion impacted insular estuaries		
		10:53 - 11:00 AM Non-native Aquatic Plants in Coastal Urban Stormwater Structures: Habitats for Mansonia Mosquito Production		
		11:00 - 11:15 AM Columbia River Sediment Loads: Evaluating Historical Changes and Observing the Response of Lower Columbia Wetlands		
		11:15 - 11:30 AM Ex-post evaluation of ecosystem services provided by estuarine restoration actions along the European Atlantic coast		
		1:00 - 1:15 PM Lower Columbia and Willamette River Water temperatures, 1850-present: influences of anthropogenic activity and climate change		
		1:15 - 1:30 PM Long-term changes in river tides in the Lower Columbia River Estuary		
		1:30 PM - 1:38 PM Shallow-water habitat in the Lower Columbia River Estuary: a highly modified system		
		1:38 PM - 1:45 PM Suisun Landscapes: historical ecology, functional metrics, and community priorities for landscape planning		
		1:45 - 2:00 PM ***withdrawn***		
		2:00 - 2:15 PM Estuarine sediment dynamics and the importance of storms in moving mud		
		2:15 - 2:23 PM Tidal Dynamics at the Confluence of Two Engineered Tidal Systems		
		2:15 - 2:30 PM Anthro-geomorphic Drivers of Changing Estuarine Flood Risk		
8:00 AM	2:30 PM	**Nature-Based Solutions for Coastal Ecosystems: Successes, Failures, and Lessons Learned**	Oral	D137-138
		8:00 - 8:15 AM An introduction to the broad field of nature-based solutions in coastal environments		
		8:15 - 8:30 AM Systematic review: challenges and opportunities of nature-based coastal protection in Southeast Asia		

		8:30 - 8:45 AM Preparing Florida for a future in green infrastructure: Living shorelines training for marine contractors		
		8:45 - 9:00 AM Impacts of sediment addition on plants and invertebrates in a southern California salt marsh		
		9:00 - 9:15 AM Environment outweighs genetics in determining Spartina alterniflora height in a restored Connecticut marsh		
		9:15 - 9:30 AM How do marsh sediments and vegetation characteristics change as living shorelines age?		
		10:00 - 10:15 AM Valuing living shoreline ecosystem service benefits		
		10:15 - 10:30 AM Evaluation of nature-based solutions to boost wetland resilience to sea-level rise		
		10:30 - 10:45 AM Reefense: DARPA and a multi-disciplinary team join forces to develop oyster reefs for coastal protection		
		11:00 - 11:15 AM Tools and approaches to improve long-term monitoring and provision of ecosystem services		
		11:15 - 11:30 AM Evaluation of ecosystem response to thin layer placement on a Jekyll Island, Georgia salt marsh		
		1:00 - 1:15 AM Lessons Learned for the Columbia from Puget Sound Estuary Restoration		
		1:15 - 1:30 PM Faunal response to oyster-based living shorelines: an evaluation of bird and mammal use of restored habitat		
		1:30 - 1:45 PM Limits to oyster development on breakwater structures		
		1:45 - 2:00 PM Living Shorelines in the Salish Sea: Influence of armor removal, logs, coastal landforms, and fetch		
		2:00 - 2:15 PM Barrier Islands and Marshes for Coastal Protection: A Study of Apalachicola Using ADCIRC		
		2:15 - 2:30 PM The Delaware Estuary Living Shoreline Initiative (DELSI): lessons learned from 15 years		
10:00 AM	11:30 AM	**Growing a Diverse Estuarine Research and Management Workforce**	Oral	D139-140
		10:00 - 10:15 AM Impacts of student participation in the NOAA Experiential Research and Training Opportunity (NERTO)		
		10:15 - 10:30 AM Building a Coastal Restoration Workforce at the Community College Level		
		10:30 - 10:45 AM Religiosity contributes to a lack of representation of Black scientists		
		10:45 - 11:00 AM Culturally relevant curricula: using place-based education to promote awareness, action and workforce development		
		11:00 - 11:15 AM Inclusion at the Margins: Elevating Islanders in STEM from the U.S. Territories		
		11:15 - 11:23 AM Strengthening connections between Minority Serving Institutions with Federal agencies to enhance outreach and career development		
		11:23 - 11:30 AM Rising TIDES (Toward an Inclusive, Diverse, and Enriched Society): broadening participation in CERF disciplines		
10:00 AM	11:30 AM	**Integrated Applications of Satellite Remote Sensing Products to Inform Coastal Processes and Management Decisions**	Oral	D135
		10:00 - 10:15 AM Mapping hidden levees to inform management of marsh migration		
		10:15 - 10:30 AM Expanding the Flooding in Landsat Across Tidal Systems (FLATS) index in Landsat 5-9 imagery		
		10:30 - 10:45 AM Remote sensing of mercury species in San Francisco Bay		
		10:45 - 11:00 AM Assessing temporal patterns in SAV Blue Carbon in the Chesapeake Bay from satellite imagery		
		11:00 - 11:15 AM Comparing seagrass mapping capability between traditional aerial images and planet satellite imagery		
		11:15 - 11:30 AM Long-term trends in tidal wetland gross primary production from remote sensing		
10:00 AM	11:30 AM	**Science to Support Planning: Focus on Coastal Louisiana**	Oral	E144
		10:00 - 10:15 AM Leveraging and supporting research through the Louisiana Coastal Master Plan		
		10:15 - 10:30 AM Wetland loss and accretion in coastal Louisiana: implications of recent updates to coastwide models		
		10:30 - 10:45 AM Intraspecific variation in morphological and metabolomic responses to abiotic stressors in coastal Louisiana Phragmites australis		
		10:45 - 11:00 AM Incorporating uncertainties into coastal wetland vulnerability assessment and coastal planning efforts in LouisianaIncorporating uncertainties into		
		11:00 - 11:15 AM Evaluating the Plant Community and Ecosystem Dynamics of Created Marshes in Louisiana		
		11:15 - 11:30 AM High Tide Flooding Impacts to Essential Facility Access as Part of Louisiana's Coastal Master Plan		
10:00 AM	2:30 PM	**Estuarine and Coastal Plankton Communities: Sentinels of Evolving Ecosystems**	Oral	E142-143
		10:00 - 10:15 AM Investigating factors contributing to phytoplankton biomass declines in the lower Sacramento River (California, USA)		
		10:15 - 10:30 AM The Importance of Winter Dinoflagellate Blooms in Chesapeake Bay—a Missing Link in Bay Productivity		
		10:30 - 10:45 AM ***withdrawn***		
		10:45 - 11:00 AM A combined experimental-observational approach to understand rainfall impacts on plankton communities		
		11:00 - 11:15 AM A seven year analysis into the phytoplankton community of Galveston Bay using IFCB imagery		
		11:15 - 11:30 AM Tracking Vibrio: population dynamics and community ecology in Alabama estuaries		
		1:00 - 1:15 PM Copepod Community Size and Climate Change: Long-Term Trends and Trophic Implications in a Temperate Estuary		
		1:30 - 1:45 PM How does Northern Gulf of Mexico surface phytoplankton community composition change with DIN concentration?		
		1:45 - 2:00 PM Zooplankton community dynamics and drivers in Perdido Bay, Florida		
10:00 AM	2:30 PM	**Not Just Checking a Box: Inclusive Communication as a Tool to Engage in Resiliency**	Oral	D136
		10:00 - 10:15 AM Session Introduction: Inclusive research and communication from an Indigenous perspective		
		10:15 - 10:30 AM Advancing inclusive community-driven hazards training		

		10:30 - 10:45 AM Connecting community assets, racialized processes, and social capital for Latinx immigrants in Lincoln County, OR		
		10:45 - 11:00 AM Building trusting islander relationships that lead to community partnerships		
		11:00 - 11:15 AM Co-creating an EJ-focused resilience and planning tool to inform non-profit restoration activities		
		1:00 - 2:30 PM Panel Discussion: Not just checking a box: inclusive communication as a tool to engage in resiliency		
10:00 AM	2:30 PM	**Time Domain of Extreme Events on Coastal Resilience**	Oral	E141
		10:00 - 10:15 AM Evidence of ecosystem-level adaptation to disturbance in tidal wetlands		
		10:15 - 10:30 AM Calcite saturation state responses to extreme-discharge and climate change: Implications for shellfish aquaculture and restoration		
		10:30 - 10:45 AM Extreme events decouple aquatic C export from terrestrial productivity in a restored coastal forested wetland		
		10:45 - 11:00 AM Do tropical cyclones alter the sedimentary silica cycle in subtropical deltaic sediment?		
		11:00 - 11:15 AM Assessing the Resilience and Recovery of Important Recreational Fisheries to Extreme Events in Coastal Texas		
		11:15 - 11:23 AM Impact of tropical storms on carbonate chemistry in the Chesapeake Bay		
		11:23 - 11:30 AM Resilience of the nearshore subtidal community to a major dam removal-related sediment disturbance		
		1:00 - 1:15 PM Determining zone of intolerance based on salinity intensity and continuity thresholds for Crassostrea virginica		
		1:15 - 1:30 PM The role of biodiversity and disturbance intensity on nearshore fish community responses to hurricanes		
		1:30 - 1:45 PM Spatial and temporal patterns in ecosystem responses to management, restoration, and disturbance in Florida Bay		
		1:45 - 2:00 PM Analysis of storm disturbance impacts and recovery in Florida Bay, USA		
		2:00 - 2:15 PM Variance reflects resilience to disturbance along a stress gradient: experimental evidence from Georgia tidal marshes		
		2:15 - 2:30 PM Seagrass species richness and identity influence annual seagrass cover, but synchrony drives meadow stability		
11:30 AM	1:00 PM	Affinity Group Lunch: Persons with Disabilities	Affinity Groups	Portland Ballroom 255
11:30 AM	1:00 PM	Portland OCC Concessions	General	GinkoBerry Entry
11:45 AM	1:00 PM	Reasons for Hope Town Hall	Town Hall	Portland Ballroom 251-252
1:00 PM	2:30 PM	**Building Resilience in Communities, Programs, and The Workforce Through Inclusion**	Oral	D139-140
		1:00 -1:15 PM An inclusive, open science approach to identifying and engaging underserved communities in Tampa Bay restoration		
		1:15 - 1:30 PM Strengthening relationships with historically underserved communities across South Carolina through research and resilience programs		
		1:30 - 1:45 PM Building connections and resilience: the study of cumulative impacts facing underserved communities in southern Delaware		
		1:45 - 2:00 PM Northern Latitudes Partnerships: A model for diverse, inclusive collaboration across disciplinary and geographic boundaries		
		2:00 - 2:30 PM Panel Discussion		
1:00 PM	2:30 PM	**Integrated Applications of Non-Satellite Remote Sensing Products to Inform Coastal Processes and Management Decisions**	Oral	D135
		1:00 - 1:15 PM Development and application of a restoration-focused marsh lifespan calculator		
		1:15 - 1:30 PM ***withdrawn***		
		1:30 - 1:45 PM Using UAV imagery to evaluate the impact of wrack disturbance on salt marsh biomass		
		1:45 - 2:00 PM Pragmatically Mapping Phragmites with UAS: Comparison of Invasive Species Classification Using RGB and Multispectral Imagery		
		2:00 - 2:30 PM Panel Discussion		
1:00 PM	2:30 PM	**Temperate Tidal Swamps: Understudied and Threatened Forested and Scrub-Shrub Wetlands**	Oral	E146
		1:00 - 1:15 PM Upper estuarine forested wetlands are potential global hotspots for Blue Carbon		
		1:15 - 1:30 PM Hummock and hollow patterning reflect shifting balances of sedimentation vs. subsidence in temperate tidal swamps		
		1:30 - 1:45 PM Pacific Northwest forested and scrub-shrub tidal wetlands: Functions, historical significance, past impacts and future threats		
		1:45 - 1:53 PM Sitka spruce (Picea sitchensis) Tidal Freshwater Forests of the Columbia River Estuary		
		1:53 - 2:00 PM Hydrology of tidal freshwater wetlands functioning as a floodwater storage area for a low-gradient river		
		2:00 - 2:15 PM Tidal-hydrological dynamics of water temperature across freshwater forested wetlands		
		2:15 - 2:30 PM Tidal Swamp Restoration: A Survey of Work Being Done in Oregon and Washington		
1:00 PM	2:30 PM	**Towards Science-Driven Integrated Management of the Lowermost Mississippi River**	Oral	E144
		1:00 - 1:15 PM Background of and summary of technical investigations within Louisiana's Lowermost Mississippi River Management Program		
		1:15 - 1:30 PM ***withdrawn***		
		1:30 - 1:45 PM A physics-based and machine-learning hybrid model supporting the RESTORE-funded Lowermost Mississippi River Management Program		
		1:45 - 2:00 PM Neptune Pass: The Largest New Distribuary Of The Mississippi River		
		2:00 - 2:15 PM Dynamics of saltwater intrusion in the Mississippi River during the 2012 and 2022 low-flow seasons		
2:30 PM	3:00 PM	Working Parent Meetup	Family Friendliness	F152
3:00 PM	4:30 PM	Plenary: Traditional Ecological Knowledge	Plenary	Portland Ballroom 253-254, 257-258
4:30 PM	7:00 PM	Monday Poster Session	Poster	Exhibit Hall D-E

4:30 PM	7:30 PM	Conference Ombuds Walk-In Consultation Hours	Conference Ombuds	G130
6:00 PM	8:00 PM	UMCES Social	Special Event (by invitatio	F149
7:00 PM	9:00 PM	Early Career Networking Event	Student/Early Career Even	Portland Ballroom 251- 252
9:00 PM	11:00 PM	Student & Early Career Night Out on the Town	Student/Early Career Even	Rontoms
Tuesday, 14 November				
Start Time	End Time	Event	Type	Location
6:00 AM	8:00 PM	Rising TIDES Lounge	Rising TIDES	Portland Ballroom 256
6:15 AM	7:15 AM	CERFers on the Run	Social Event	Pre-function Space Lobby D
7:00 AM	8:00 AM	Past CERF Presidents' Breakfast (by invitation)	Special Event (by invitatio	F149
7:30 AM	4:30 PM	Child Care	Family Friendliness	G 131-132
7:00 AM	5:00 PM	Registration Open	General	Pre-function Space Lobby D
7:00 AM	5:00 PM	Speaker Presentation Room	General	F151
7:00 AM	6:00 PM	Family Lounge	Family Friendliness	F152
8:00 AM	9:30 AM	**ECM: Estuarine and Coastal Modeling-Day 2**	Oral	D133-134
		8:00 - 8:15 AM Okanagan Lake long-term shoreline planning through a hydromorphological modelling framework		
		8:15 - 8:30 AM Deconstructing bottom drag parameterizations in wave models over reef substrates		
		8:30 - 8:45 AM Rising Seas impacting Sediment Transport in Hampton Roads		
		8:45 - 9:00 AM Effects of joint turbulence and axial convergence on suspended tracer fields in a simulated estuary		
		9:00 - 9:15 AM Seasonal variations in estuarine salinity and hysteresis effects		
		9:15 - 9:30 AM Temperature trend analysis in estuaries along the coast of Texas, USA		
8:00 AM	9:30 AM	**Non-Indigenous and Invasive Species in Estuaries and Coasts**	Oral	D136
		8:00 - 8:15 AM The hunt for Carcinus maenas zoeae: temporospatial variability of brachyuran larvae in Padilla Bay, WA		
		8:15 - 8:30 AM Collaborative monitoring and removal of European green crabs in Drayton Harbor and Samish Bay, Washington		
		8:30 - 8:45 AM Abundance of native vs invasive oysters in the Northern Pacific coast of Baja California		
		8:45 - 9:00 AM Pollination of Iris pseudacorus in a Southern California estuary		
		9:00 - 9:08 AM Spatial and temporal dynamics of European green crab (Carcinus maenas) on the Makah Reservation		
		9:08 - 9:15 AM ***withdrawn***		
		9:15 - 9:30 AM Differences in Ships' Ballast Water Management Practices among US Coasts		
8:00 AM	11:30 AM	**Climate Change Driven Impacts to Wetlands Across The Riverine to Estuarine Continuum**	Oral	D135
		8:00 - 8:15 AM Physical processes affecting hurricane sedimentation on marshes		
		8:15 - 8:30 AM Long-term marsh vegetation community dynamics in the Nueces Delta (TX, USA) are driven by climate		
		8:30 - 8:45 AM Interactive effects of saltwater intrusion and woody encroachment in the salt marsh-mangrove ecotone		
		8:45 - 9:00 AM Vapor pressure deficit and air temperature drive midday depression of photosynthesis in C4 salt marsh grass		
		9:00 - 9:15 AM Biogeochemistry and function in soils as they transition from coastal forest to wetland		
		9:15 - 9:30 AM Climate-related phenology changes allow for rapid expansion of Phragmites at the marsh-forest boundary		
		10:00 - 10:15 AM The Impact of Soil Porewater Salinity and Fire Management on Salt Marsh to Pine Savanna		
		10:15 - 10:30 AM Hydrodynamic response to tidal restoration and sea level rise in the Herring River Estuary, MA		
		10:30 - 10:45 AM Estuarine salinity extremes: using the Coastal Salinity Index to quantify the role of extreme events		
		10:45 -11:00 AM Hydrogeomorphic condition indicates alternate stable states in a non-tidal, brackish marsh of the Florida Coastal Everglades		
		11:00 - 11:15 AM Multiple stressors affect microbial nitrogen cycling under pulse and press scenarios in tidal freshwater wetlands		
		11:15 - 11:30 AM Beavers, Black Gum Swamps, and a suprising increase in nitrogen export		
8:00 AM	11:30 AM	**Habitat Restoration Within Landscapes: Research, Tradeoffs, Policy, and Practice**	Oral	E141
		8:00 - 8:15 AM Out of the landfill: can red mangroves grow in recycled, crushed glass?		
		8:15 - 8:30 AM Landscape connectivity and metapopulation dynamics in oyster restoration		
		8:30 - 8:45 AM Friend? Foe? Eelgrass effect on filter feeder biomass and condition index in a multi-habitat living shoreline		
		8:45 - 9:00 AM Influence of oyster reefs on the biodiversity and function of surrounding sediments		
		9:00 - 9:15 AM Using bioenergetics and landscape connectivity to plan effective tidal delta restoration projects for Chinook salmon		
		9:15 - 9:30 AM Tailoring Basin-scale Restoration of Gulf of Mexico Oyster Reefs to Address Differing Management Goals		
		10:00 - 10:15 AM Understanding the role of habitat distribution on the biodiversity of estuarine nekton		

		10:15 - 10:30 AM Local habitat-setting influences biodiversity and predation affects oyster survival on experimental oyster reefs		
		10:30 - 10:45 AM Evaluation of essential juvenile Summer Flounder habitat through a seascape lens		
		10:45 - 10:53 AM Evaluating oyster restoration performance across ecological gradients in Barnegat Bay, NJ		
		10:53 -11:00 AM Evaluating marsh restoration success in coastal Mississippi		
		11:00 - 11:15 AM Upscaling remediation of floodplain wetlands – a data-driven approach to estuary management in Australia		
		11:15 - 11:30 AM Using research and restoration to inform resource management and policy decisions in Texas		
8:00 AM	11:30 AM	**Monitorning and Modeling Estuarine Lower Trophic Levels**	Oral	E146
		8:00 - 8:15 AM Interactions between phytoplankton communities, salinity, and temperature on oysters in three Gulf of Mexico estuaries		
		8:15 - 8:30 AM Optimizing a DNA metabarcoding toolkit for monitoring plankton communities in a Florida estuary		
		8:30 - 8:45 AM A Deep Learning Approach to Forecast Harmful Algal Blooms in the Face of Climate Change		
		8:45 - 9:00 AM Arctic lagoon ecology: Spatial and temporal variations of benthic macrofauna		
		9:00 - 9:15 AM High-resolution sampling of water quality and phytoplankton dynamics in two shallow Texas estuaries		
		9:15 - 9:30 AM Developing a lower trophic level monitoring plan for Barataria Basin, Louisiana		
		10:00 - 10:15 AM Multi-prey functional responses for mysids, an omnivorous marine consumer		
		10:15 - 10:30 AM Is benthic community composition an indicator of the presence of environmental stressors in variable environments?		
		10:30 - 10:45 ***withdrawn***		
		10:45 - 11:00 AM Shifting estuarine salinity may favor community-level plasticity of benthic macrofauna		
		11:00 - 11:07 AM Local environments explain fecundity and growth differences between populations of Neomysis americana		
		11:07 - 11:15 AM Ecological controls on sediment and water column microbial communities in Arctic lagoons		
		11:15 - 11:22 AM Understanding density effects of key invertebrates on eelgrass (Zostera marina) to inform restoration actions		
8:00 AM	11:30 AM	**Stories from the Braided River: Nonlinear, Enriching Workforce Pathways and Narratives in Coastal Science and Management**	Oral	D139-140
		8:00 - 8:15 AM Advancing science by advancing people: Embracing my passion as a coastal science administrator		
		8:15 - 8:30 AM How many turns does it take? My path to graduate school and beyond		
		8:30 - 8:45 AM My "Soft Launch" into Conservation		
		8:45 - 9:00 AM From a scientist to connector, estuaries to forests, moving north-to-south-to-north: a story of adventure and healing		
		9:00 - 9:15 AM Let There Be Science: The Challenges and Opportunities of a Blossoming Scientific Career		
		9:15 - 9:30 AM Panel Discussion: Stories from the braided river: nonlinear, enriching workforce pathways and narratives in coastal science and management		
		10:00 - 10:15 AM A lot of luck: reflections on my path to a fulfilling coastal management career		
		10:15 - 10:30 AM Finding my true north		
		10:30 - 10:45 AM A personal tale of circumstance and opportunity: my journey as a Latin-American woman marine scientist		
		10:45 -11:30 AM Panel Discussion: Stories from the braided river: nonlinear, enriching workforce pathways and narratives in coastal science and management		
8:00 AM	4:30 PM	**Biogeochemisty in Estuaries and Coasts: A Session in Honor of Dr. Iris C. Anderson**	Oral	E145
		8:00 - 8:15 AM Seagrass and carbon stock resilience to a marine heatwave		
		8:15 - 8:30 AM Simulation of high-frequency dissolved oxygen dynamics in a shallow estuary, Corsica River, Chesapeake Bay		
		8:30 - 8:45 AM Ecosystem and climate effects on long-term wetland decomposition: insights from a global tea litter program		
		8:45 - 9:00 AM Biogeochemical controls on dissolved organic carbon production and degradation in tidal marsh porewaters		
		9:00 - 9:15 AM Pore-scale evidence of physical soil organic carbon (SOC) stabilization in tidal marsh soil profiles		
		9:15 - 9:30 AM How do dominant salt marsh plants alter carbon sequestration patterns under similar environmental conditions?		
		10:00 - 10:15 AM Hurricane Harvey impacts sediment nitrogen cycling in a shallow, low-inflow subtropical estuary		
		10:15 - 10:30 AM Hurricane effects on benthic nitrogen cycling in emerging coastal deltaic floodplain within Mississippi River Delta Basin		
		10:30 - 10:45 AM Seasonal variability and drivers of benthic metabolism in Beaufort Sea coastal Arctic lagoons		
		10:45 - 11:00 AM Impacts of climate and water chemistry on benthic fauna in tributaries of the Chesapeake Bay		
		11:00 - 11:15 AM Bringing the Neuse River Estuary into the lab: Microbial microcosms explore coastal nutrient cycling		
		11:15 - 11:30 AM Linking gene scale microbial activity with ecosystem scale carbon feedback		
		1:00 - 1:15 PM Regional and species differences influence the nitrogen removal potential of shellfish aquaculture		
		1:15 - 1:30 PM Chronic nutrient enrichment affects nitrogen removal processes in tidal creeks and rivers		
		1:30 - 1:45 PM A comparison of nutrient cycling in healthy and degraded Florida West and East Coast estuaries		
		1:45 - 2:00 PM Nutrient heterogeniety within sea ice of an Arctic coastal lagoon		
		2:00 - 2:15 PM Resilience to eutrophication under high nitrogen loading: Nitrogen cycling dynamics in South San Francisco Bay		
		2:15 - 2:30 PM Patterns in nitrogen isotopes from fish at the continental scale		

		3:00 - 3:15 PM Impact of intense phytoplankton blooms on carbon cycling in a temperate estuary		
		3:15 - 3:30 PM Ecosystem metabolic rates estimated from diel oxygen measurements in two subtropical estuaries		
		3:30 - 3:45 PM Seasonal trends of CO2 flux and metabolic status of Arctic lagoons		
		3:45 - 4:00 PM Repeated patterns and interannual variability in low oxygen events in the lower Columbia River estuary		
		4:00 - 4:15 PM Effects of soil quality, salinity, and temperature on CO2 and CH4 release from eroded Arctic Permafrost		
		4:15 - 4:30 PM Buffering capacity minima in coastal–estuarine waters: implications for ocean acidification trajectories and ecosystem management		
8:00 AM	4:30 PM	**Ecological Patterns and Processes of Coastal Ecosystem Dynamics in Changing "Scapes"**	Oral	D137-138
		8:00 - 8:15 AM Vegetation-driven seasonal sediment dynamics in a freshwater marsh of the Mississippi River Delta		
		8:15 - 8:30 AM Analysis of spatio-temporal microbial dynamics at the bioluminescent bay in Fajardo, Puerto Rico		
		8:30 - 8:45 AM A mechanistic multi-stressor climate vulnerability index for U.S. West Coast shellfish		
		8:45 - 9:00 AM Water quality, oyster demographics, and disease dynamics on Sapelo Island, Georgia		
		9:00 - 9:15 AM Early recruitment limitation impedes the recovery of the eastern oyster (Crassostrea virginica) in Mississippi Sound		
		9:15 - 9:30 AM Enhanced monitoring supporting improved habitat assessment for Chesapeake Bay		
		10:00 - 10:15 AM Hydrological connectivity between salt marsh sub-habitats in microtidal and megatidal regimes in Atlantic Canada		
		10:15 - 10:30 AM Species- and community-level drivers of spatiotemporal variation in nekton biomass of saltmarsh ponds across scales		
		10:30 - 10:45 AM Soundscape-habitat interactions can support acoustically mediated enhancement and resilience in coastal ecosystems		
		10:45 - 11:00 AM A passive acoustics-based approach to track foraging behaviors and effects from mobile, shell-crushing predators		
		11:00 - 11:15 AM Assessing California Chinook salmon diet using fatty acid signatures amidst the occurrence of thiamine deficiency		
		11:15 - 11:30 AM Comparative analysis of C-N stable isotopes from variable tissues in largemouth bass		
		1:00 - 1:15 PM Interoceanic comparison of benthic-pelagic coupling along rocky coasts of Nova Scotia and Oregon		
		1:15 - 1:30 PM Shifting interannual isoscapes across the central California Current: Implications for interpreting trophic structure		
		1:30 - 1:45 PM Latitudinal patterns of source assimilation and food-chain length in estuarine food-webs		
		1:45 - 2:00 PM Exploring multitrophic stability in marine ecosystems		
		2:00 - 2:15 PM ***withdrawn***		
		2:15 - 2:30 PM Fine-scale saltmarsh complexity supports resident and transient nekton communities		
		3:00 - 3:15 PM Influence of ecosystem state and habitat complexity on trophic dynamics		
		3:15 - 3:30 PM Spatiotemporal patterns of seagrass seascape state and stability in South Florida		
		3:30 - 3:45 PM A multi-level approach to assessing nektonic biodiversity and community structure of seagrass seascapes		
		3:45 - 4:00 PM Salinity gradient affects on juvenile blacktip sharks (Carcharhinus limbatus) distribution in a seagrass nursery		
		4:00 - 4:15 PM ***withdrawn***		
		4:15 - 4:23 PM Use of historical isoscapes to develop an estuarine nutrient baseline		
		4:23 - 4:30 PM Influence of freshwater inflow and habitat on spotted seatrout (Cynoscion nebulosus) across an estuarine seascape		
8:00 AM	4:30 PM	**Maintaining and Restoring Climate Resilient Seagrass Ecosystems**	Oral	E142-143
		8:00 - 8:15 AM The dynamics of seagrass ecosystems: history, past accomplishments and future prospects: Part 1		
		8:15 - 8:30 AM Uncovering the molecular mechanism of flowering in Zostera marina, a foundation intertidal species		
		8:30 - 8:45 AM Microgeographic differentiation and adaptation to depth within meadows of the seagrass Zostera marina		
		8:45 - 9:00 AM Green turtle grazing alters seagrass growth responses to environmental drivers across seasons		
		9:00 - 9:15 AM Seagrass Epibiont Biodiversity in the Northern Gulf of Mexico		
		9:15 - 9:30 AM Epifaunal mesograzers are associated with increased incidence and intensity of seagrass wasting disease		
		10:00 - 10:15 AM Water quality thresholds for protecting submerged aquatic vegetation in North Carolina's Albemarle-Pamlico Sound estuarine system		
		10:15 - 10:30 AM Local thermal variation modulates resilience to warming in seagrass: evidence from seedlings		
		10:30 - 10:45 AM Local thermal variation modulates resilience to warming in seagrass: evidence from seedlings		
		10:45 - 11:00 AM Predictions of eelgrass vulnerability to warmer temperature regimes in Pleasant Bay, Cape Cod, MA		
		11:00 - 11:15 AM Effect of water clarity on Halodule wrightii seasonal persistence		
		11:15 - 11:30 AM Linking sea level rise with seagrass loss: A study in the western Gulf of Mexico		
		1:00 - 1:15 PM The potential of UAS as a tool to map seagrass habitat in Oregon estuaries		
		1:15 - 1:30 PM Two decades of eelgrass (Zostera marina) monitoring in the Morro Bay estuary, CA		
		1:30 - 1:45 PM Local variability in seagrass populations in greater Puget Sound, Washington (USA)		
		1:45 - 2:00 PM Exploring feedbacks preventing seagrass colonization and passive restoration techniques		
		2:00 - 2:15 PM Recovery mechanisms of seagrass (Zostera marina) following dredging disturbance		

		2:15 - 2:30 PM Improving Eelgrass restoration success through manipulation of the sediment iron cycle		
		3:00 - 3:15 PM Effects of donor source and transplant depth on restored eelgrass in Puget Sound, WA, USA		
		3:15 - 3:30 PM Monitoring and restoration of brackish submerged aquatic vegetation in a Chesapeake Bay tributary		
		3:30 - 3:45 PM Help from near and far: potential uses for infaunal bivalve-seagrass facilitation in seagrass restoration		
		3:45 - 4:00 PM Evaluating and enhancing eelgrass resiliency and restoration potential in a changing climate		
		4:00 - 4:15 PM Collaborative and climate-adaptive restoration of eelgrass		
		4:15 - 4:30 PM The dynamics of seagrass ecosystems: history, past accomplishments, and future prospects. Part 2		
10:00 AM	11:30 AM	**Coastal Transport Pathways of Plankton, Pollutants, and Particles**	Oral	E144
		10:00 - 10:15 AM Hydrodynamics mediates the response of longfin smelt to freshwater flow in the San Francisco Estuary		
		10:15 - 10:30 AM Assessing Fecal Bacteria Pollution Over Shellfish Growing Areas: Model Application and Implications for Watershed Monitoring		
		10:30 - 10:38 AM Pollutant sources and transport pathways in Nu'uuli Pala Lagoon, American Samoa		
		10:38 - 10:45 AM Modeling Microplastic Fate and Transport in Estuarine and Coastal Systems		
		10:45 - 11:00 AM Effects of tide, river discharge, wind, and particle buoyancy on residence time in Delaware Bay		
		11:00 - 11:15 AM Infragravity-dominated Suspended Sediment Dynamics on a Stratified Intertidal Estuarine Flat		
		11:15 - 11:30 AM Variability of residence time and estuarine-ocean fluxes in a chain of Arctic back-barrier estuaries		
10:00 AM	11:30 AM	**Ecological Modeling**	Oral	D133-134
		10:00 - 10:15 AM Development of a living shoreline model to compute ecosystem restoration benefits		
		10:15 - 10:30 AM Characterizing regional patterns of diversity and compositional change of benthic algae across the Canadian Arctic		
		10:30 - 10:45 AM Coupled ecosystem modeling reveals mixed effects of reductions in nutrients and hypoxia on living resources		
		10:45 - 11:00 AM How to deal with spatial scale and uncertainty in the modelling of estuarine environmental niches		
		11:00 - 11:30 AM Panel Discussion		
10:00 AM	4:30 PM	**Fish and Shellfish: Linking Science, Management, and Society - Day 1**	Oral	D136
		10:00 - 10:15 AM Spatially-explicit filtration services from modeled oyster restoration scenarios in the Hudson River Estuary		
		10:15 - 10:30 AM California and Oregon shellfish farmers: Perceptions of stressors and adaptive strategies		
		10:30 - 10:45 AM Hurricanes, COVID, and Freezes…OH MY! Fishing, top-down control, and oyster reef resliency to stochasitc events		
		10:45 - 11:00 AM Scared strong: Using predator chemical cues to enhance oyster survivorship at the restoration scale		
		11:00 - 11:15 AM Environmental DNA methods to characterize fish communities in Northern Gulf of Mexico estuarine and near-shore		
		11:15 - 11:30 AM Assessing Eastern Oyster (Crassostrea virginica) Predation Utilizing Real-Time Monitoring and eDNA Analysis in Delaware		
		1:00 - 1:15 PM Effects of dissolved oxygen and water temperature on Atlantic sturgeon in the Delaware River		
		1:15 - 1:30 PM Assessment of Cypermethrin toxicity in Schizothorax labiatus—cytotoxic, hematological, biochemical and histological alterations in vital organs		
		1:30 - 1:45 PM Contaminant risk and social vulnerability associated with crustacean shellfish harvest in a semi-arid urbanized bay		
		1:45 - 2:00 PM Distribution of remanent oyster populations and spat in the Northern Moreton Bay region, Queensland, Australia		
		2:00 - 2:15 PM Egg grooming behavior by the American lobster (H. americanus)		
		2:15 - 2:30 PM ***withdrawn***		
		3:00 - 3:15 PM Modeling behavior to hypoxia: A development example considering Atlantic sturgeon in the Delaware River		
		3:15 - 3:30 PM Foraging responses of American lobster (Homarus americanus) to both commercial baits and sustainable alternatives		
		3:30 - 3:45 PM The Effects of Temperature on Embryonic Development in an Intertidal Crab		
		3:45 - 4:00 PM How does exposure to environmental mercury or hypoxia influence fish behavior?		
		4:00 - 4:15 PM Growth and survival of transplanted soft-shell clams (Mya arenaria) during a winter growout period in a Virginia estuary		
		4:15 - 4:30 PM Oyster Habitat Restoration and Monitoring - Supporting Spawner Sanctuaries		
11:30 AM	1:00 PM	Lunch On Own - Visit Exhibitors!	General	Exhibit Hall DE
11:30 AM	1:00 PM	Portland OCC Concessions	General	GinkoBerry Entry
11:30 AM	1:00 PM	Working Across Discipline and Difference to Address Complex Coastal Issues	Panel	Portland Ballroom 251-252
1:00 PM	2:30 PM	**Restoring Coastal Ecosystem Function**	Oral	E141
		1:00 - 1:08 PM Evaluating outcomes of oyster-seagrass interactions across an exposure gradient		
		1:08 - 1:15 PM Impacts of oyster reef restoration on the recruitment of native and non-native biodiversity		
		1:15 - 1:23 PM Assessing the habitat value of novel breakwater substrates for estuarine fauna		
		1:23 - 1:30 PM Burrowing crab effects on sediments along a chronosequence of tidal marsh restoration		
		1:30 - 1:38 PM Drivers of invertebrate density and richness in restored and natural wetlands		
		1:38 - 1:45 PM Investigating the Drivers of High Wetland Loss Rates in Brackish Marshes in the Mississippi River Delta		

		1:45 - 1:53 PM Incorporating secondary foundation species in coastal restoration		
		1:53 - 2:00 PM Evaluating the trophic value of beneficial uses restoration sites for coastal birds		
		2:00 - 2:08 PM Oyster restoration recovers ecosystem function: evidence from meta-analysis and long-term study		
		2:08 - 2:15 PM The mystery of the missing molluscs: Unravelling mussel restoration and recovery in New Zealand		
		2:15 - 2:23 PM ***withdrawn***		
1:00 PM	4:30 PM	**Developing New Insights From Environmental Data Through Innovative Analysis Approaches**	Oral	E144
		1:00 - 1:15 PM Using field data to characterise deoxygenation events in eastern Australian estuaries		
		1:15 - 1:30 PM Resolving high-frequency dissolved oxygen dynamics using spectral techniques		
		1:30 - 1:45 PM Fitting metabolic models to dissolved oxygen data: the Estuarine BAyesian Single-station Estimation method		
		1:45 - 2:00 PM Impacts of Marine Heatwaves on Subsurface Temperatures and Dissolved Oxygen in the Chesapeake Bay		
		2:00 - 2:15 PM Comprehensive Assessment of the Impacts of Large Reductions in Point Source Nutrient Loading to the		
		2:15 - 2:23 PM Spatial-temporal interpolation tool for dissolved oxygen in Chesapeake Bay		
		2:23 - 2:30 PM Discussion		
		3:00 - 3:15 PM Using continental-scale monitoring data to develop nitrogen and phosphorus thresholds to assess United States estuaries		
		3:15 - 3:30 PM Developing short-term fecal coliform forecasting for shellfish growing waters using Random Forest models		
		3:30 - 3:45 PM Spatial analysis and field observations of aquaculture-SAV interactions in Chesapeake Bay		
		3:45 - 4:00 PM Advanced data methods for efficient coastal flood hazard assessment		
		4:00 - 4:08 PM Using high frequency observations to characterize phytoplankton dynamics in South San Francisco Bay		
		4:08 - 4:15 PM Nutrient limitation of phytoplankton in three tributaries of Chesapeake: Detecting ecosystem recovery following nutrient reductions		
		4:15 - 4:23 PM Exploring variability in streamflow and nutrient loads in the Chesapeake Bay watershed through Bayesian modeling		
		4:23 - 4:30 PM Discussion		
1:00 PM	4:30 PM	**Human Impacts and Climate Change**	Oral	D135
		1:00 -1:15 PM Reduction of nitrogen in streams of the Chesapeake Bay in areas with agricultural conservation practices		
		1:15 - 1:30 PM The Ocean Identity survey: A valid and reliable measure of human connections to ocean spaces		
		1:30 - 1:45 PM Comparative analysis of physical and biological changes at a long-term mooring site in the Bering		
		1:45 - 2:00 PM Identifying patterns in the spatial ecology of Australian White Ibis to optimise coastal management		
		2:00 - 2:15 PM In the sinkhole: emerging pollutant and bacterial contamination in cenotes of the Yucatán Peninsula, Mexico		
		2:15 - 2:30 PM Interactive effects of nutrient enrichment and waves along a tidal marsh ecotone		
		3:00 - 3:15 PM Over thirty years of water quality monitoring and managing anthropogenic inputs in Pettaquamscutt Estuary		
		3:15 - 3:30 PM The tropicalization of Baja and Southern California estuaries		
		3:30 - 3:45 PM Exploring ocean identity with expert stakeholders: concept dimensions and practical applications		
		3:45 - 4:00 PM Disentangling the effects of natural and anthropogenic pressures on benthic communities		
		4:00 - 4:15 PM A Tale of Two Estuaries: Environmental detections of human-use contaminants across estuarine Zostera marina communities		
		4:15 - 4:30 PM Nitrogen in the Chesapeake Bay Watershed: A Century of Change, 1950 – 2050		
1:00 PM	4:30 PM	**Mixing and Transport in Estuaries and Coastal Systems**	Oral	D133-134
		1:00 - 1:15 PM Impact of hurricanes on the coastal ocean during the onset of the fall transition		
		1:15 - 1:30 PM Surface Convergence Zones due to Lagrangian Residual Flow in Tidally Driven Estuaries		
		1:30 - 1:45 PM Modeled and observed temperature dynamics in a small Pacific Northwest estuary and its sloughs		
		1:45 - 2:00 PM Frontogenesis by Material Convergence for Tampa Bay and the Adjacent Gulf of Mexico		
		2:00 - 2:15 PM How does the circulation of the five largest tributaries of the Chesapeake Bay compare?		
		2:15 - 2:30 PM Water column variability along the Olympic Coast from 23 years of mooring and CTD data		
		3:00 - 3:15 PM Seasonal cycles of ocean conditions and salinity-controlled density stratification along the Newport Hydrographic Line		
		3:15 - 3:30 PM Mixing things up - Estuarine sediment dynamics during episodic, non-equilibrium conditions		
		3:30 - 3:38 PM Coastal water anomaly, Gulf Stream deceleration, and cross-shelf mixing in South Atlantic Bight post-Hurricane Matthew		
		3:38 - 3:45 PM A watershed-hydrodynamic-wave-storm surge-water quality modeling and observational system for the Maryland Coastal Bays		
		3:45 - 3:53 PM Comprehension of Wave Radiation Stress and Vortex Force Theories at an Inlet System		
		3:53 - 4:00 PM Hydrodynamic response of the Bohai Sea to marine heat waves in the summers of 2015-2018		
		4:00 - 4:08 PM From land to ocean to table: measuring and managing contaminants in marine organisms		
		4:08 - 4:15 PM Dynamical framework for exchange flows in semi-enclosed basins		
		4:15 - 4:23 PM Deep water renewal episodes dictate reoxygenation and hypoxia seasonality in a shallow tropical estuary		

		4:23 - 4:30 PM Scales and Drivers of Mixing within Frontal Convergence Zones: Observations from the Salish Sea		
1:00 PM	4:30 PM	**Transdisciplinary Approaches to Support Coastal Community Resilience: Interactions Between Natural, Human-Built, and Social Systems.**	Oral	D139-140
		1:00 - 1:15 PM A parcel-scale quantitative sea level rise vulnerability analysis for Puget Sound, Washington State		
		1:15 - 1:30 PM Sea level rise, storm-driven hazards, and coastal resilience in the Pacific Northwest and beyond		
		1:30 - 1:45 PM Oregon Coastal Management Program: Utilizing Bottom-up Community Engagement Practices to Prepare for Climate Change Impacts		
		1:45 - 2:00 PM Angler conflict with coastal wildlife on the Alabama coast: protecting sea turtles with greater awareness		
		2:00 - 2:15 PM R2R2R: A social-ecological systems approach to community-based decisions for coastal restoration		
		2:15 - 2:30 PM A comprehensive block-level coastal flood risk assessment over the Gulf Coast of the US		
		3:00 - 3:15 PM Predicting tidal wetland response to sea-level rise along a salinity gradient		
		3:15 - 3:30 PM Planning for Coastal Resiliency in New Zealand Via Green and Blue Infrastructure in Two Cities		
		3:30 - 3:45 PM Accessing design to inspire climate adaptation in NY waterfront communities		
		3:45 - 4:00 PM Co-designing solutions for socio-environmental challenges: Insights from Stakeholder Listening Sessions		
		4:00 - 4:15 PM Harnessing facilitation cascades in the design of coastal green infrastructure		
		4:15 - 4:23 PM Coastal Ocean Assessment for Sustainability and Transformation		
1:00 PM	4:30 PM	**Using Drones to Assess Coastal Resilience and Recovery**	Oral	E146
		1:00 - 1:15 PM Using drones and open-source AI to map changes in kelp canopy after an ecological regime shift		
		1:15 - 1:30 PM Contrasting barrier island recovery from storm outwash and overwash events using spatiotemporally dense UAS-derived datasets		
		1:30 - 1:45 PM Assessment of drone-based indicators of intertidal oyster reef persistence and resilience		
		1:45 - 2:00 PM Evaluating indices at various spatial scales: An exploration of canopy phenology using flux footprints		
		2:00 - 2:15 PM sUAS use in living shoreline wetland restoration: low-cost workflows and emerging opportunities		
		2:45 - 3:00 PM Object-based analytical tools for real-time monitoring of coastal restoration success with UAS data		
		3:00 - 3:15 PM Using drones for marsh assessment and restoration planning		
		3:15 - 3:30 PM Monitoring change in salt marsh vegetation distribution and biomass using UAS-derived multispectral imagery		
		3:30 - 3:45 PM Scaling the ecological effects of wrack across a salt marsh disturbance-scape		
		3:45 - 4:00 PM The dynamics of marsh-channel slump blocks observed through repeat drone imagery		
		4:00 - 4:08 PM Assessing UAS methods for long-term monitoring of intertidal oyster reefs		
2:00 PM	5:00 PM	Conference Ombuds Walk-In Consultation Hours	Conference Ombuds	G130
2:30 PM	3:00 PM	Break with Exhibitors	General	Exhibit Hall DE
3:00 PM	4:30 PM	**Urban Restoration**	Oral	E141
		3:00 - 3:15 PM Addressing climate change and development pressures in an urban estuary through habitat restoration planning		
		3:15 - 3:30 PM Challenges in and lessons learned from a mulit-objective restoration project in Silicon Valley		
		3:30 - 3:45 PM Urban salt marsh restoration techniques adapted to sea level rise impacts		
		3:45 - 4:00 PM Creating Flood-Resilient Landscapes in New Jersey Communities		
		4:00 - 4:15 PM ***withdrawn***		
		4:15 - 4:30 PM The newest "Hope Spot"- The NY/NJ Harbor Estuary		
4:30 PM	5:30 PM	Annual CERF Membership and Business Meeting	General	Portland Ballroom 251- 252
5:30 PM	6:30 PM	SEERS Affiliate Meeting	Affiliate Society Meeting	D133-134
5:30 PM	6:30 PM	AERS Affiliate Society Meeting	Affiliate Society Meeting	D136
5:30 PM	6:30 PM	ACCESS Affiliate Society Meeting	Affiliate Society Meeting	E142-143
5:30 PM	6:30 PM	NEERS Affiliate Society Meeting	Affiliate Society Meeting	E145
5:30 PM	6:30 PM	PERS Affiliate Society Meeting	Affiliate Society Meeting	D135
5:30 PM	6:30 PM	CAERS Affiliate Society Meeting	Affiliate Society Meeting	D137-138
5:30 PM	6:30 PM	GERS Affiliate Society Meeting	Affiliate Society Meeting	E146
7:00 PM	10:00 PM	CERF 2023 Social Event	Social Event	World Forestry Center Discovery Museum
Wednesday, 15 November				
Start Time	End Time	Event	Type	Location
6:00 AM	7:00 PM	Rising TIDES Lounge	Rising TIDES	Portland Ballroom 256
7:00 AM	8:00 AM	CESN Breakfast (by invitation)	Special Event (by invitatio	F149
7:00 AM	5:00 PM	Registration Open	General	Pre-function Space Lobby D

7:00 AM	5:00 PM	Speaker Presentation Room	General	F151
7:00 AM	6:00 PM	Family Lounge	Family Friendliness	Cascade Head
7:30 AM	4:30 PM	Child Care	Family Friendliness	G 131-132
8:00 AM	9:30 AM	**Artistic Pathways to Scientific Understanding**	Oral	E141
		8:00 - 8:15 AM Weapons of Microdestruction: what art, music and collaborations bring to science		
		8:15 - 8:30 AM Promoting ResilienSEA through Science, Education, and Art in Hawai'i		
		8:30 - 8:45 AM Coastal Magic: Bridging Art and Science to Improve Coastal Georgia Resiliency		
		8:45 - 9:00 AM The journey of a science-curious artist through landscapes of inquiry		
		9:00 - 9:15 AM Dance your science: a novel approach to scientific learning through movement for teens		
		9:15 - 9:30 AM Improvisation: An artistic guide to taking risks, failing, and succeeding in science, education, and communication		
8:00 AM	9:30 AM	**Megafauna: Turtles, Dolphins, and Sharks, Oh My!**	Oral	E146
		8:00 - 8:15 AM Characterization of the skin microbiome of free-ranging bottlenose dolphins (Tursiops truncatus) in a dynamic environment		
		8:15 - 8:30 AM Spatial and temporal trends of sea turtle stranding in NE Florida		
		8:30 - 8:45 AM Influence of abiotic and biotic factors on juvenile Carcharhinus leucas abundance in a subtropical estuary		
		8:45 - 9:00 AM Physiological assessment of common bottlenose dolphins (Tursiops truncatus) across a salinity gradient		
		9:00 - 9:15 AM The reciprocal links among marine mammal, ecosystem, and human health in coastal waters		
		9:15 - 9:23 AM Marina observation of sea turtles (MOST): establishing a database of north Florida green sea turtles		
		9:23 - 9:30 AM ***withdrawn***		
8:00 AM	9:30 AM	**Modeling to Support the Management of Estuarine and Coastal Contamination**	Oral	D133-134
		8:00 - 8:15 AM Delaware Valley Early Warning System Transport Model provides decision-support for Delaware River chemical spill response		
		8:15 - 8:30 AM A unified approach to modeling fate, transport, and speciation: combining physical and biogeochemical interactions		
		8:30 - 8:45 AM Propwash model to predict contaminated sediments' resuspension and redistribution induced by vessel traffic		
		8:45 - 9:00 AM Bayou blues: mapping marine debris in the Lower Galveston Bay watershed to aid management		
		9:00 - 9:15 AM Modeling floating wetland nitrogen removal pathways and interactions with adjacent waters		
		9:15 - 9:30 AM Discussion		
8:00 AM	11:00 AM	Conference Ombuds Walk-In Consultation Hours	Conference Ombuds	G130
8:00 AM	11:30 AM	**Resilience, Recovery, and Response of Mangrove Ecosystems to Stressors**	Oral	D137-138
		8:00 - 8:15 AM Monitoring of the Structure of a Caribbean Mangrove Forest and its Response to Stressors		
		8:15 - 8:30 AM Mortality and recovery after Hurricane Ian in southwest Florida mangrove forests		
		8:30 - 8:45 AM Response of San Juan Bay Estuary mangroves to sea level rise and hurricane intensity		
		8:45 - 9:00 AM Weathering the storm (or not); post-hurricane mangrove monitoring in the U.S. Virgin Islands		
		9:00 - 9:15 AM Wave attenuation through a mangrove forest using LiDAR representation		
		9:15 - 9:30 AM Climate change-induced shift in mangrove ranges drives above and belowground changes to salt marsh habitat		
		10:00 - 10:15 AM Patterns of Black Mangrove (Avicennia germinans) Reproduction after a Deep Freeze Event		
		10:15 - 10:30 AM Divergent responses of mangrove forests to human disturbances in Puerto Rico		
		10:30 - 10:45 AM Predicting mangrove soil properties and accretion rates across distinct coastal environmental settings		
		10:45 - 11:00 AM Mangrove belowground biomass and necromass production in Gulf of Nicoya and Térraba-Sierpe Wetlands in Costa Rica		
		11:00 - 11:08 AM Mapping national changes in mangrove cover in Pamama: Implications for carbon stock estimates		
		11:08 - 11:15 AM Monitoring restoration and recovery in two impounded southeast Florida mangrove forests		
8:00 AM	11:30 AM	**Restoration, Remediation, and Recovery of Coastal and Estuarine Systems: Best Practices for Improved Outcomes**	Oral	E144
		8:00 - 8:15 AM Tidal channel network development rates for marsh restoration		
		8:15 - 8:30 AM Leveraging natural succession of foundation species to improve coastal dune restoration along frequently disturbed coastlines		
		8:30 - 8:45 AM Comparing the provision of ecosystem services of an anthropogenically modified marsh to a natural marsh		
		8:45 - 9:00 AM What Comes First Sediment Remediation or Ecosystem Recovery? (Hint: They Should Go Hand in Hand!)		
		9:00 - 9:15 AM The biodiversity and ecomorphodynamics of a Canadian barrier spit restored using the sand engine technique		
		9:15 - 9:30 AM Strategic monitoring and adaptive management for Deepwater Horizon restoration in Louisiana		
		10:00 - 10:15 AM Influence of hydrodynamic and sedimentary processes in Making Room for Wetlands in a hypertidal estuary		
		10:15 - 10:30 AM Incorporating positive species interactions and nutrient addition leads to rapid coastal dune restoration		
		10:30 - 10:45 AM Restoration and assisted migration of coastal wetland communities in south Texas		
		10:45 - 11:30 AM Panel DIscussion		

8:00 AM	11:30 AM	**Seagrass Ecosystem Functions and Services in the 21st Century**	Oral	E142-143
		8:00 - 8:15 AM Adaptation of eelgrass to a warming world: implications for disease, habitat value, and ecosystem functioning		
		8:15 - 8:30 AM Species Matters - Comparison Of Seagrass Metabolism For Two Dominant Temperate Seagrasses		
		8:30 - 8:45 AM Macrophyte species richness improves resilience to grazing		
		8:45 - 9:00 AM Eelgrass resilience to water quality stressors: Can Zostera marina ecosystem engineer improved water quality?		
		9:00 - 9:08 AM Seagrass bed properties are shaped by distinct temperature and light regimes		
		9:08 - 9:15 AM Using multiple heating metrics to measure landscape-scale temperature stress in temperate seagrass meadows		
		9:15 - 9:23 AM Changing foundation species in Chesapeake Bay: implications for faunal communities of two dominant seagrass species		
		9:23 - 9:30 AM Seagrass after hours: Night surveys through time reveal latitudinal variation in day versus night communities		
		10:00 - 10:15 AM Biophysical modeling of the interaction between eelgrass and water quality in Coos Bay estuary, Oregon		
		10:15 - 10:30 AM Long-term alteration in sediment iron pools in seagrass meadows after eutrophication: implications for restoration		
		10:30 - 10:45 AM Nekton use of seagrass (Zostera marina) habitat on intertidal oyster aquaculture farms		
		10:45 - 11:00 AM Assessing physiological acclimation potential of Porites porites along a density gradient of Thalissia testudinum		
		11:00 - 11:08 AM Eelgrass-associated changes in seawater pH alleviate negative effects of warming on blue mussels		
		11:08 - 11:15 AM Are seagrass meadows sources or sinks of water-column primary production?		
		11:15 - 11:30 AM Amelioration of coastal acidification by restored and natural eelgrass beds in San Francisco Bay, California		
8:00 AM	2:30 PM	**Advances in Blue Carbon Research and Applications to Policy and Planning-Day 1**	Oral	E145
		8:00 - 8:08 AM Pacific Northwest Blue Carbon Working Group's collaborative approach to facilitating climate mitigation in the region		
		8:08 - 8:15 AM Methane emissions from least-disturbed, restored, and disturbed tidal wetlands in the Pacific Northwest, USA		
		8:15 - 8:30 AM Patterns and predictors of soil carbon accumulation rates across multiple Pacific Northwest estuaries		
		8:30 - 8:45 AM Land use effects on net ecosystem carbon balance and radiative forcing in PNW tidal wetlands		
		8:45 - 9:00 AM A synthesis of soil carbon stocks from coastal wetlands in western North America		
		9:00 - 9:08 AM State climate action: Incorporating coastal wetlands into climate planning		
		9:08 - 9:15 AM Effectively Crafting Decision Support Tools to Maximize the Application of Blue Carbon Data		
		9:15 - 9:30 AM Scaling regional carbon stock data to estuary-level interactive web-based maps and carbon calculators in Oregon		
		10:00 - 10:15 AM Evidence-based approaches to understanding blue carbon dynamics on the Pacific Coast of Canada		
		10:15 - 10:30 AM Assessing variability of blue carbon stocks across scales and their fate under sea level rise		
		10:30 - 10:45 AM Landscape-scale biophysical controls on mangrove blue carbon distribution		
		10:45 - 10:53 AM Variation of sediment organic carbon in mangrove forests of the U.S. Virgin Islands		
		10:53 - 11:00 AM Quantification of Carbon Sequestration & Storage in San Diego's Eelgrass Beds		
		11:00 - 11:15 AM Temporal and spatial variability of blue carbon in a California tidal salt marsh		
		11:15 - 11:30 AM Carbon Storage and Accumulation in the Belle Isle Marsh (Boston Harbour Urban Estuary)		
		1:00 - 1:15 PM Seasonal air-water greenhouse gas exchange over a temperate seagrass meadow		
		1:15 - 1:30 PM Quantifying methane and carbon dioxide fluxes of tidal marshes on the Pacific Coast of Canada		
		1:30 - 1:45 PM Porewater exchange drives tidal creek stratification in a salt marsh: implications for lateral carbon fluxes		
		1:45 - 2:00 PM Navigating uncertainty and assumptions in calculating carbon flux for adaptive management and policy development		
		2:00 - 2:15 PM Techniques for sampling the carbon composition of subtidal oyster reefs		
		2:15 - 2:30 PM Seasonal and interannual variability of a bull kelp carbon cycle: productivity and flux		
8:00 AM	2:30 PM	**Advances in Harmful Algal Bloom (HAB) Research Across the Freshwater to Marine Continuum**	Oral	D135
		8:00 - 8:15 AM The influences of nitrogen on harmful algal blooms within an urban estuary following COVID-19		
		8:15 - 8:30 AM Identifying the source and fate of microcystins detected in San Francisco Bay		
		8:30 - 8:45 AM Progression and impacts of a 2022 HAB event in San Francisco Bay		
		8:45 - 9:00 AM Using empirical habitat suitability models with mechanistic model output to forecast estuarine harmful algal blooms		
		9:00 - 9:15 AM The ecology and impacts of the Great Atlantic Sargassum Belt		
		9:15 - 9:30 AM Assessing if emergency water management drought response impacted HABs in the Upper San Francisco Estuary		
		10:00 - 10:15 AM Phytoplankton community succession during the August 2022 Heterosigma akashiwo bloom in San Francisco Bay, California		
		10:15 - 10:30 AM Top-down control of Acartia tonsa (copepods) on harmful (Margalefidinium polykrikoides) dinoflagellate blooms		
		10:30 - 10:45 AM Microcystin concentrations, congener profiles, and bacterial composition during multiple blooms in the Chowan River		
		10:45 - 11:00 AM Eastern oyster behavior in the presence of lower salinity and toxic and nontoxic Microcystis aeruginosa		
		11:00 - 11:15 AM Net ecosystem metabolism of a harmful algal bloom measured using a high-frequency moored sensor array		

		11:15 - 11:30 AM Phycotoxins along two New Jersey estuaries		
		1:00 - 1:15 PM Nutrient limitation of phytoplankton growth in Albemarle Sound, NC		
		1:15 - 1:30 PM Evaluating Cyanotoxin Transport from Freshwater Harmful Algal Blooms to a Coastal New Jersey System		
		1:30 - 1:45 PM From seasons to decades: HAB taxa occurrence in a 60-year estuarine time series		
		1:45 - 2:00 PM Using clay as a control technology for Karenia brevis: Impacts on microbial and non-target phytoplankton		
		2:00 - 2:15 PM Managing a Cyanobacteria Harmful Algae Bloom "Hotspot" in the upper San Francisco Estuary		
		2:15 - 2:23 PM Harmful algal bloom science and management in coastal National Parks		
		2:23 - 2:30 PM Development of a harmful algal bloom monitoring strategy for the Sacramento-San Joaquin Delta		
8:00 AM	2:30 PM	**Coproduction with Diverse Stakeholder Engagement for Coastal Ecosystem Management**	Oral	D139-140
		8:00 - 8:15 AM Incorporating community values and equity into indicators for the SF Estuary Wetlands Regional Monitoring Program		
		8:15 - 8:30 AM Coproduction of Linked Statistical, Process, and Management models of the Chesapeake Bay Watershed		
		8:30 - 8:45 AM Delivering research to those who need it: South Carolina Water Chats		
		8:45 - 9:00 AM The Puget Sound Ecosystem Monitoring Program: Success stories and challenges linking monitoring to decision-making		
		9:00 - 9:15 AM Building adaptive capacity to coastal flooding in Texas' Coastal Bend: The role of community-based nonprofits		
		9:15 - 9:30 AM Integrating resilience and social vulnerability metrics and stakeholder involvement to promote collaborative marsh adaptation projects		
		10:00 - 10:15 AM Incentivizing Gulf of Mexico natural resource managers and researchers to co-produce actionable science		
		10:15 - 10:30 AM A road map to restoration: Community-driven watershed planning in coastal South Carolina		
		10:30 - 10:45 AM Developing a collaborative framework to maximize oyster production, sustain ecosystem benefits, and improve coastal resilience		
		10:45 - 11:00 AM Uniting Partners and Resources to Protect Central and Southwest Florida's Future Water, Wildlife, and Habitat		
		11:00 - 11:15 AM Exceeding expectations: making co-production work for fisheries research in rural Alaska		
		11:15 - 11:30 AM The Mangrove Coast Collaborative: Harnessing coproduction to address mangrove ecosystem resilience following hurricane disturbance		
		1:00 - 1:15 PM Shared Visioning and Tool Development for Improved Mangrove Restoration Outcomes in the U.S. Virgin Islands		
		1:15 - 1:30 PM Coproduction of knowledge by academic and nonprofit researchers: Real-time monitoring of fecal indicator bacteria		
		1:30 - 1:45 PM A roadmap to the Co-production of a decision support tool for coastal ecosystems		
		1:45 - 1:53 PM Integrating regulatory priorities into the San Francisco Estuary Wetland Regional Monitoring Program		
		1:53 - 2:00 PM Kelp and eelgrass health and conservation in Washington - collaboratively identifying priority areas		
		2:00 - 2:15 PM Enhancing the Chesapeake Bay Program monitoring networks: partnership investment leads to new phase of monitoring		
		2:15 - 2:30 PM Climate-driven nearshore habitat change influences mental models of waterfront resident coastal social-ecological systems		
8:00 AM	2:30 PM	**Fish and Shellfish: Linking Science, Management, and Society-Day 2**	Oral	D136
		8:00 - 8:15 AM A numerical study of eastern oyster larvae growth and dispersal in Barataria Bay, Louisiana		
		8:15 - 8:30 AM Assessing the effects of sea otters on Dungeness crab populations in Southeast Alaska		
		8:30 - 8:45 AM Chesapeake Bay's Rising Water Temperatures: Stakeholder-identified management and science recommendations for fisheries and habitats		
		8:45 - 9:00 AM Microplastics in fish from the Anacostia and Potomac Rivers		
		9:00 - 9:15 AM Niche partitioning between endemic and range-expanding fishes in search of winter refuge		
		9:15 - 9:30 AM Artificial reef characterization in coastal New Jersey		
		10:00 - 10:15 AM From lab bench to hatchery: operationalizing a genomic approach for oyster selective breeding in Louisiana		
		10:15 - 10:30 AM Landscape-level effects of upland and shoreline development on benthos and crabs		
		10:30 - 10:45 AM From the mind of the fisher: Perceptions of range-expanding species' impacts on the American lobster		
		10:45 - 11:00 AM Resource partitioning among sympatric species across saltmarsh ponds of coastal Louisiana		
		11:00 - 11:15 AM Effects of fish predation on a nearshore mysid community in Chesapeake Bay tributary		
		11:15 - 11:30 AM Phenology of penaeid shrimp nursery habitat use in the southeastern United States		
		1:00 - 1:15 PM Hard clam (Mercenaria mercenaria L.) Response to a warming environment		
		1:15 - 1:30 PM ***withdrawn***		
		1:30 - 1:45 PM Responses of juvenile sportfish to experimental acute and chronic low salinity exposure		
		1:45 - 2:00 PM One fish, two fish, Blackfish, and Bluefish: habitat utilziation of New York States artificial reefs		
		2:00 - 2:15 PM Evaluating recent shifts in long-term trajectories of burrowing shrimp populations in US west coast estuaries		
		2:15 - 2:30 PM Relative predation risk of fish in a restored tidal wetland		
9:30 AM	10:00 AM	Break with Exhibitors	General	Exhibit Hall DE
10:00 AM	2:30 PM	**Cross-Scale Approaches to Understand Ecosystem Responses to Global Change**	Oral	E141
		10:00 - 10:15 AM Examining wave energy as a driver of oyster clump movement in Florida's Big Bend		

		10:15 - 10:30 AM Does exposure to coastal acidification correlate with site-specific effects on oyster production?		
		10:30 - 10:45 AM Cross-scale approaches for managemenbt and conservation of coastal marine ecosystems under climate change		
		10:45 - 11:00 AM Optimising coastal management through identifying multi-scaled pressures and drivers of fish assemblages		
		11:00 - 11:15 AM Climate oscillations drive nutrient availability and seagrass abundance across the South Florida seascape		
		11:15 - 11:30 AM Exploring the relationship between eelgrass and its microbiome in response to Eelgrass Wasting Disease		
		1:00 - 1:15 PM Nationwide coastal wetland vertical response to sea level rise: a synthesis		
		1:15 - 1:30 PM Impacts of sea-level rise on the tidal marshes and estuarine biochemical processes		
		1:30 - 1:45 PM Tracking Coastal Wetland Condition Over Time: Development of the Southern California WRP Regional Monitoring Program		
		1:45 - 2:00 PM Effective monitoring of San Francisco Estuary tidal wetlands across multiple temporal and spatial scales		
		2:00 - 2:15 PM Coastal Louisiana System-Wide Water Quality Analysis and Monitoring Assessment		
		2:15 - 2:30 PM Climate and atmospheric change over decades in coastal ponds and lakes in Cape Cod, MA		
10:00 AM	2:30 PM	**Estuarine, Coastal, and Shelf Sedimentary Processes, Products, and Dynamics**	Oral	D133-134
		10:00 - 10:15 AM Linking tidal-creek sediment fluxes to vertical sediment accumulation in heavily impacted and restored salt marshes		
		10:15 - 10:30 AM Hydrodynamic and transport processes numerical modeling in a shallow estuary in Southern California		
		10:30 - 10:45 AM Measurements of coastal barrier shorezone dynamics to inform modeling and management: Insights from Rhode Island		
		10:45 - 11:00 AM How wind-induced sediment resuspension of nitrogen influences harmful algal blooms within a lower James River		
		11:00 - 11:15 AM Investigating biotic and physical factors influencing cohesive sediment erodibility in San Francisco Bay		
		11:15 - 11:30 AM Hydrodynamics and sediment transport in the tidally-influences James River		
		1:00 - 1:15 PM Using High-Throughput Sequencing to Determine the Diets of the Copepods Eurytemora carolleeae and Pseudodiaptomus forbesi		
		1:15 - 1:23 PM Mobility of Ra-226 complicates determination of lead-based age-depth relationships		
		1:23 - 1:30 PM Quantifying Oxygen Exposure Time of Particulates in Coastal Systems		
		1:30 - 1:38 PM Anthropocene deposition and dispersal within the Sulaibikhat Bay portion of southern Kuwait Bay is dominantly		
		1:38 - 1:45 PM An investigation of the closure regimes of California's bar-built estuaries		
		1:45 - 1:53 PM Changes in sediment transport and accumulation in Coos Bay, Oregon over the past 100-150 years		
		1:53 - 2:00 PM Influence of marsh elevation and geomorphology on current and future sediment delivery and deposition		
		2:00 - 2:08 PM Sediment records of historical discharges from a phosphogypsum facility in Tampa Bay, Florida		
		2:08 - 2:15 PM Perigean spring tide washover fans: a system in transition		
		2:15 - 2:30 PM Mimicking storms in experimental ecosystems, with implications for bivalve biodeposit export and biogeochemical processes		
10:00 AM	2:30 PM	**Food Web Linkages Across Habitat Boundaries**	Oral	E140
		10:00 - 10:15 AM Temperature and flooding duration mediate the structure of a floodplain spatial prey subsidy		
		10:15 - 10:30 AM Saltmarsh-mudflat linkage inferred from stable isotope analysis in mega- and microtidal systems		
		10:30 - 10:45 AM Keystone molecules alter estuarine food webs: effects of gastropod chemical defense on consumers and detritivores		
		10:45 - 11:00 AM Restoring tidal marsh food web structure and energy pathways for estuarine fish communities		
		11:00 - 11:15 AM Missed connections: Identifying key species interactions for management in the Bay-Delta Estuary		
		11:15 - 11:23 AM Spatial and temporal dynamics of giant kelp subsidies structure invertebrate communities of recipient sandy beaches		
		11:23 - 11:30 AM Contributions of kelp (Nereocystis luetkeana) to a temperate eelgrass (Zostera marina) food web		
		1:00 - 1:15 PM Conserving for complementarity: A functional approach to conservation		
		1:15 - 1:30 PM Resource partitioning among sympatric predatory fishes revealed by a multi-tracer isotopic approach		
		1:30 - 1:45 PM Key role of microphytobenthos in estuarine food webs revealed by stable isotope analyses		
		1:45 - 2:00 PM Tracing food web connectivity across brackish marsh landscape mosaics		
		2:00 - 2:15 PM Intra- and inter-site variation in marsh resource use by estuarine consumers		
		2:15 - 2:30 PM Cross-habitat concepts improve our understanding of food web function universally: Case studies from Lake Champlain		
11:30 AM	1:00 PM	CERF 2023 Coastal Design Competition - Tillamook, Oregon	General	E144
11:30 AM	1:00 PM	Estuaries and Coasts Editorial Board Lunch (by invitation)	Special Event (by invitatio	F149
11:30 AM	1:00 PM	Affinity Group Lunch: LGBTQ+	Affinity Groups	Portland Ballroom 255
11:30 AM	1:00 PM	Lunch On Own - Visit Exhibitors!	General	Exhibit Hall DE
11:30 AM	1:00 PM	Portland OCC Concessions	General	GinkoBerry Entry
1:00 PM	2:30 PM	**Assessing Cumulative Effects of Restoration on Coastal Ecosystem Resilience**	Oral	E144
		1:00 - 1:15 PM Examining the cumulative effects of estuarine habitat restoration on juvenile salmon in Puget Sound, WA		
		1:15 - 1:30 PM Synthesis and meta-analysis of literature to evaluate coastal restoration effectiveness for Chinook Salmon, Puget Sound		

		1:30 - 1:45 PM Predictive Modeling of Estuary Habitats: A Case Study of the New Jersey Back Bays		
		1:45 - 1:53 PM Lagged survival benefits of cumulative estuary restoration for multiple populations of threatened Chinook salmon		
		1:53 - 2:00 PM Population responses of juvenile salmonids to two decades of cumulative estuary restoration		
		2:00 - 2:15 PM Quantifying ecogeomorphic change and resilience along barrier island shorelines and barrier islands		
		2:15 - 2:30 PM Synthesizing and evaluating restoration progress in Puget Sound using a cumulative effects framework		
1:00 PM	2:30 PM	**Emerging Threats to Mangrove Ecosystems from Extreme Events**	Oral	D137-138
		1:00 - 1:15 PM Loss of mangroves due to hard freeze leads to coastal erosion		
		1:15 - 1:30 PM Post-hurricane recovery of mangrove forest development in the Florida Coastal Everglades		
		1:30 - 1:45 PM Catastrophic freeze-disturbance effects on biomass allocation of Avicennia germinans on the Texas Gulf Coast		
		1:45 - 2:00 PM Mangrove recolonization following winter storm Uri: Response to nutrient treatment and Batis		
		2:00 - 2:15 PM Life and Death of Mangroves at Their Poleward Range Limit Along USA's Atlantic East Coast		
		2:15 - 2:30 PM Nutrient Over-Enrichment Intensifies the Impact of Extreme Weather Events on Mangrove Ecosystems		
1:00 PM	2:30 PM	**Management of Marine Nearshore Vegetation: Challenges, Lessons Learned, and Opportunities**	Oral	E142-143
		1:00 - 1:15 PM Estuarine seagrass management and climate change		
		1:15 - 1:30 PM Leaning into the Anthropocene: Managing SAV in the nation’s largest estuary		
		1:30 - 1:38 PM PMEP’s West Coast Nearshore State of the Knowledge Habitat Report and Spatial Data Tools		
		1:38 - 1:45 PM Collaborative strategy for kelp forest conservation: the Puget Sound Kelp Conservation and Recovery Plan		
		1:45 - 1:53 PM California Eelgrass Mitigation Policy Five Year Review and Implementation Status		
		1:53 - 2:00 PM Ecological valuation and equivalency analysis methods for assessing temperate nearshore marine submerged aquatic vegetation habitats		
		2:00 - 2:15 PM Long-term strategies to conserve dynamic seagrass seascapes should address both potential and extant habitat		
		2:15 - 2:30 PM Lessons learned from thirty years of data on U.S. west coast eelgrass restoration		
2:30 PM	3:00 PM	Break with Exhibitors	General	Exhibit Hall DE
2:30 PM	3:00 PM	Kids Poster Session	Family Friendliness	Exhibit Hall D-E
3:00 PM	4:30 PM	Plenary: Social Inequities of Climate Change and Community Migration	Plenary	Portland Ballroom 253-254, 257-258
4:30 PM	7:00 PM	Wednesday Poster Session	Poster	Exhibit Hall D-E
4:30 PM	7:30 PM	Conference Ombuds Walk-In Consultation Hours	Conference Ombuds	G130
5:50 PM	6:00 PM	Silent Auction Closes	General	Exhibit Hall DE
7:00 PM	8:30 PM	CERF 2023 Coastal Design Competition Reception (by invitation)	Special Event (by invitatio	VIP Suite
7:00 PM	9:00 PM	Rising TIDES Conference Program Close-Out Event (by invitation)	Rising TIDES	Portland Ballroom 255
Thursday, 16 November				
Start Time	End Time	Event	Type	Location
6:00 AM	8:00 PM	Rising TIDES Lounge	Rising TIDES	Portland Ballroom 256
7:00 AM	8:00 AM	CERF 2025 Committee Breakfast (by invitation)	Special Event (by invitatio	F149
7:00 AM	3:00 PM	Speaker Presentation Room	General	F151
7:00 AM	4:30 PM	Registration Open	General	Pre-function Space Lobby D
7:30 AM	4:30 PM	Child Care	Family Friendliness	G 131-132
7:00 AM	6:00 PM	Family Lounge	Family Friendliness	F152
8:00 AM	9:30 AM	**Community Engagement Initiatives for Increased Coastal Resilience**	Oral	D139-140
		8:00 - 8:15 AM Cedar Key ShOREs – a model for co-designing nature-based solutions in a small coastal town		
		8:15 - 8:30 AM Integrating diversity, equity, inclusion, justice, and accessibility (DEIJA) in community engagement and outreach to enhance resiliency		
		8:30 - 8:45 AM Using ecological restoration to enhance personal and community resilience		
		8:45 - 9:00 AM An investigation of Virtual Reality as a tool for Citizen Engagemt in Coastal Resilience Planning		
		9:15 - 9:30 AM Engaging community members in adaptation planning for local stormwater challenges in Cape Canaveral		
8:00 AM	9:30 AM	**Diagnostic Timescale Methods for Coastal Environments: Challenges, Improvements, and Applications**	Oral	D133-134
		8:00 - 8:15 AM Timescale methods for understanding and modeling complex aquatic ecosystems: bringing some order to the chaos		
		8:15 - 8:30 AM The Peter-Parker Model: breaking apart physical and biological contributions which lead to estuarine phytoplankton blooms		
		8:30 - 8:45 AM Role of subtidal barotropic exchange on flushing capacity of shallow Texas bays		
		8:45 - 9:00 AM Estimating nutrient cycling rates by a computationally efficient novel tracer approach		
		9:00 - 9:15 AM Correlation of weak tides and daylight: driver of phytoplankton blooms in the San Francisco Estuary?		
		9:15 - 9:23 AM Transport-phytoplankton relationships in shallow-water areas of estuaries		

		9:23 - 9:30 AM A General Relationship between Vertical Mean Dissolved Oxygen and Timescales in Estuary		
8:00 AM	9:30 AM	**Ecological and Social Connectivity in Coastal Ecosystems**	Oral	E141
		8:00 - 8:15 AM Spanning ecological, disciplinary, community, and international boundaries - an evolving journey		
		8:15 - 8:30 AM Toward Understanding the Hydrologic, Ecologic and Community Flooding Implications of Coastal Restoration Strategies: Sediment Diversions		
		8:30 - 8:45 AM Improving Tidal Marsh Restoration Using Both Stakeholder Perceptions and Ecological Metrics		
		8:45 - 9:00 AM The effects of habitat fragementation on a native and nonnative goby in southern California		
		9:00 - 9:08 AM Integrating social and ecological research to control invasive species in Suisun Marsh		
		9:08 - 9:15 AM Who lives in future wetland migration corridors? A geospatial analysis of the coastal US		
		9:15 - 9:23 AM Connecting restoration science and practice: The Puget Sound Nearshore Restoration Summit and Synthesis		
		9:23 - 9:30 AM The Population Structure of Three Codistributed Syngnathid Species in Florida's Estuarine and Coastal Habitats		
8:00 AM	9:30 AM	**Plant-Microbe Interactions in Wetlands: Finding Cross-System Commonalities to Promote Resilience**	Oral	E144
		8:00 - 8:15 AM Effects of below-ground microbes on seagrass performance under increasing environmental stress		
		8:15 - 8:30 AM Plant-microbe interactions and coastal wetland resiliency: Examples from a long-term global change experiment		
		8:30 - 8:45 AM Investigating changes in soil microbial communities in the marsh-mangrove ecotone		
		8:45 - 8:53 AM The role of belowground microbes in ameliorating climate change-induced heat stress in seagrasses		
		8:53 - 9:00 AM Response of eelgrass microbiome to host genotype and experimental warming: implications for eelgrass resilience		
		9:00 - 9:08 AM Spartina alterniflora root-derived DOC metabolomics isolate the effect of plant genotype on plant-soil-microbe interactions.		
		9:08 - 9:15 AM The salt marsh metabolome: Habitat and seasonal differences in the metabolite pool of marsh sediments		
		9:15 - 9:23 AM Applying 13CO2 labeling in the field to investigate inundation and fertilizer effects on salt marsh plant-microbe interactions		
		9:23 - 9:30 AM Evaluating the influence of sediment microbial community composition and salinity on smooth cordgrass (Sporabolus alterniflorus)		
8:00 AM	11:30 AM	**Advances in Blue Carbon Research and Applications to Policy and Planning-Day 2**	Oral	E145
		8:00 - 8:15 AM Blue Carbon at the Fringes: Integrating Law, Science, Community Values, and Business		
		8:15 - 8:30 AM Open-Source Data and Tools for Blue Carbon: Assessing an Evolving Resource		
		8:30 - 8:45 AM A calculator for estimating future climate change mitigation benefits for the Australian Blue Carbon Method		
		8:45 - 9:00 AM Developing a Blue Carbon Atlas for Canada’s Coastal National Parks		
		9:00 - 9:15 AM Process-based mapping of sediment and blue carbon across Northeast US marshes		
		9:15 - 9:30 AM Blue carbon mapping in the Northeast US tidal marshes using satellite remote sensing		
		10:00 - 10:15 AM Farming Carbon: A Belowground Perspective of Carbon Markets		
		10:15 - 10:30 AM Tracking blue carbon sources and allochthonous inputs following restoration in the Nisqually River Estuary, Washington		
		10:30 - 10:45 AM Prevalence of mineral-protected blue carbon across restored salt marshes in the Bay of Fundy, Canada		
		10:45 - 11:00 AM Blue carbon ecosystem restoration- applications and implications		
		11:00 - 11:15 AM Assessing Blue Carbon Storage at Sites Restored through Beneficial Use of Dredged Sediment		
8:00 AM	11:30 AM	**Advances in Spatial Analysis and Data Sharing for Coastal Resilience**	Oral	E146
		8:00 - 8:15 AM Human modifications on salt marshes in the Northeastern US: Effects of Tidal Restrictions		
		8:15 - 8:30 AM Human modifications on salt marshes in the Northeastern US: Effects of ditching		
		8:30 - 8:45 AM Incorporating coastal resilience into land conservation in Maryland		
		8:45 - 9:00 AM A Geospatial Model for Oyster Habitat Restoration Suitability and Prioritization in Mobjack Bay, Virginia, USA		
		9:00 - 9:15 AM Assessing coastal wetland vulnerability in Chesapeake Bay using spatially integrative metrics		
		9:15 - 9:30 AM Applying Coastal Change Likelihood assessment to highlight coastal change hazards to National Park Service resources		
		10:00 - 10:15 AM A deep dive into biogeochemical mapping of the shallow south San Francisco Bay shoals		
		10:15 -10:30 AM Approaches to analyze and interpret high-resolution spatiotemporal nutrient data in a complex estuary		
		10:30 - 10:45 AM SF Wetland Regional Monitoring Program: Automated estuarine habitat mapping using OBIA and relative tidal elevation		
		10:45 - 11:00 AM UAS to CZM: Applications and challenges for emerging technologies for coastal zone management		
		11:00 - 11:15 AM An updated Wave Exposure Model (WEMo) using R and fine-scale near-shore bathymetry: applications for restoration		
		11:15 -11:30 AM WARMER-Coast: simulating estuarine dynamics to help inform management with climate change		
8:00 AM	11:30 AM	**Ocean and Coastal Acidification: Understanding Impacts and Mitigation Strategies**	Oral	D137-138
		8:00 - 8:30 AM Session Introduction		
		8:30 - 8:45 AM Acidification and other climate change stressors projected to impact oyster growth in Chesapeake Bay		
		8:45 - 9:00 AM Addressing the emerging environmental issue of coastal acidification in Florida’s estuaries with continuous monitoring		
		9:00 - 9:15 AM Ocean acidification monitoring in Central Puget Sound: initial findings and future directions		

		9:15 - 9:30 AM Acidification dynamics of US estuarine waters as determined by coastal stream and ocean chemistry trends		
		10:00 - 10:15 AM Effect of urban eutrophication on coastal acidification, hypoxia and linkage to changes pelagic habitat capacity		
		10:15 - 10:30 AM Mangrove expansion: Acidification and shell dissolution on intertidal oyster reefs		
		10:30 - 10:45 AM Biological Impacts of Ocean Acidification in the Urban Coastal Waters of Southern California, USA		
		10:45 - 11:00 AM Larval timing and seasonality in ocean acidification conditions in Washington State marine waters		
		11:00 - 11:30 AM Panel Discussion		
8:00 AM	11:30 AM	**Understanding Climate Change Impacts and Implementing Solutions in Coastal Watersheds**	Oral	E142-143
		8:00 - 8:15 AM Simulating climate change in the Chesapeake with integrated airshed, watershed, and estuary models		
		8:15 - 8:30 AM Development of Phase 7 Main Bay Model for Assessment of Climate Change in the Chesapeake		
		8:30 - 8:45 AM Development of the Next-Generation Chesapeake Bay Water Quality Model		
		8:45 - 9:00 AM Responses to climate pressures, a 24-year time-series perspective on Puget Sound		
		9:00 - 9:15 AM Complex temperature mosaics in estuaries: implications for current and future nursery function for Pacific salmon		
		9:15 - 9:30 AM Benefit of intervention to offset coastal squeeze of tidal wetlands from sea-level rise		
		10:00 - 10:15 AM Investigating bacterial concentrations in a coastal waterway during stormwater network inundation and minor tidal flooding		
		10:15 - 10:30 AM Development of a spatially explicit model for projecting future salinity distributions in coastal regions		
		10:30 - 10:45 AM ***withdrawn***		
		10:45 - 11:00 AM Variability in the timing of hypoxia onset in the Chesapeake Bay		
		11:00 - 11:15 AM Relative roles of atmosphere, ocean, and land on future climate-induced changes in Chesapeake Bay hypoxia		
8:00 AM	11:30 AM	**Urban Estuaries and Stormwater Runoff**	Oral	D135
		8:00 - 8:15 AM Watershed urban development influences tidal creek salinity and ecosystem metabolism		
		8:15 - 8:30 AM Stormwater-driven input, interception and transport of anthropogenic debris in a Great Lakes coastal watershed		
		8:30 - 8:45 AM Chemical contamination with a dash of hope: 30 years of monitoring an urban bay		
		8:45 - 9:00 AM Distribution of Metals and PAHs in Sediments of 20 Coastal Urban Stormwater Control Ponds		
		9:00 - 9:15 AM Nitrogen removal in stormwater control measures along a vegetation gradient in coastal SC		
		9:15 - 9:30 AM Not just for runoff: Tidally connected stormwater ponds support diverse nekton communities		
		10:00 - 10:15 AM The Ongoing Evolution of Floating Treatment Wetlands: Pending Advances and Coastal Zone Applications		
		10:15 - 10:30 AM New initiatives in Coastal Mississippi stormwater management		
		10:30 - 10:45 AM Three-year trends in water quality in a well-flushed, urban impacted northeast Florida estuary system		
		10:45 - 11:00 AM Treating Tire Particles and Associated Leachable Contaminants in Stormwater with Permeable Pavements		
		11:00 - 11:15 AM In-situ tryptophan-like fluorescence for applications in bacterial water quality monitoring in urban estuaries		
		11:15 - 11:30 AM Quantifying microplastics in sediment of Tampa Bay, FL		
8:00 AM	12:00 PM	Conference Ombuds Walk-In Consultation Hours	Conference Ombuds	G130
8:00 AM	2:30 PM	**Fish and Shellfish: Linking Science, Management, and Society-Day 3**	Oral	D136
		8:00 - 8:15 AM Drivers of inter-annual variation in Cynoscion nebulosus growth in Mobile Bay, AL		
		8:15 - 8:30 AM Using multiple lines of evidence to assess oxygen requirements of estuarine fish communities		
		8:30 - 8:45 AM Assessing Bay scallop (Argopecten irradians) populations in Rhode Island using underwater image-based sampling and divers		
		8:45 - 9:00 AM Learning from two consensus processes with collaborative modeling for oyster management in Maryland		
		9:00 - 9:15 AM Leveraging acoustic telemetry networks to assess phenology and habitat use patterns of Chesapeake Bay fishes		
		9:15 - 9:30 AM Determining the ecological impacts of shellfish relay in a temperate estuary		
		10:00 - 10:15 AM Quantification of ecosystem services from restored oysters and impacts of stressors ina polyhaline tributary		
		10:15 - 10:30 AM Impacts of paired Ostrea lurida and Zostera marina restoration on fish movement and habitat utilization		
		10:30 - 10:45 AM Linking damselfish performance and distribution across a tropical upwelling mosaic		
		10:45 - 11:00 AM Juvenile chinook population dynamics and individual growth and movement in the Snohomish River estuary		
		11:00 - 11:15 AM Population Characteristics Assessment on Blue Crabs (Callinectes sapidus) and Virus Identification of Callinectes sapidus Reovirus1		
		11:15 - 11:30 AM Evaluating ecological community structure from deep time to present-day in the Indian River Lagoon, Florida		
		1:00 - 1:15 PM Biophysical modeling and recruitment observations to map larval connectivity for oyster restoration planning		
		1:15 - 1:30 PM Seasonal and spatial variations between the fish community and environmental factors in a subtropical estuary		
		1:30 - 1:38 PM Comparative predator-mediated habitat use in early juvenile Bering Sea crab		
		1:38 - 1:45 PM Genome-enabled breeding of oysters for more consistent production in low salinity waters		
		1:45 - 2:00 ***withdrawn***		

		2:00 - 2:15 PM Relationship between a parasite, their ghost shrimp host, and sturgeon in US West Coast estuaries		
		2:15 - 2:30 PM Quantification of oyster pathogens using novel molecular analyses		
		2:30 - 2:38 PM Landscape-scale assessment of nekton production in channel-fringing habitats provided by eelgrass and oyster aquaculture		
9:30 AM	10:00 AM	Break	General	Pre-function Space Lobby D
10:00 AM	11:30 AM	**Coastal Community Science: Building Capacity and Capability for Resilient and Sustainable Stewardship**	Oral	D139-140
		10:00 - 10:15 AM Building capacity to address sea level rise impacts on mudflat habitat, shellfish, and harvester livelihoods		
		10:15 - 10:30 AM Engaging Remote Communities in Critical Data Collection: Fish Map App and Skipper Science		
		10:30 - 10:45 AM Creating a Community of Practice for Seagrass Restoration in the Indian River Lagoon, Florida		
		10:45 - 11:00 AM Building collaborative community partnerships through invasive European green crab management		
		11:00 - 11:30 AM Panel Discussion		
10:00 AM	11:30 AM	**Exploring the Hydrodynamics, Biogeochemistry and Ecology of Inshore-Offshore Coastal Plumes: New Knowledge and Developing Techniques**	Oral	D133-134
		10:00 - 10:15 AM Long-Term Spatial Trends of Turbid Surface Outflow from a Seasonally Variable Hydrograph: Russian River, California		
		10:15 - 10:30 AM Fate of coastal fish larvae transported to offshore waters: lost at sea or recruits?		
		10:30 - 10:45 AM Decoupled riverine inputs from a glaciated Cascade watershed and mussel diets in Bellingham Bay, WA		
		10:45 - 11:00 AM Leveraging a novel continuous ammonium analyzer to document impacts of a wastewater treatment plant upgrade		
		11:00 - 11:15 AM Measuring benthic nutrient fluxes in situ using a boat-based flow-through system		
		11:15 - 11:30 AM Exploring primary production and nutrient cycling within San Francisco Bay estuary through biogeochemical modeling		
10:00 AM	11:30 AM	**Highlights from the Columbia Estuary Ecosystem Restoration Program (CEERP) in Oregon and Washington states**	Oral	E144
		10:00 - 10:08 AM Introduction: Highlights from the Columbia Estuary Ecosystem Restoration Program (CEERP) in Oregon and Washington states		
		10:08 - 10:15 AM Columbia estuary restoration program advances: project evaluation cards, and site selection using landscape ecology principles		
		10:15 - 10:30 AM Looking beyond the restoration site: Lessons from the Columbia River estuary		
		10:30 - 10:45 AM How does CEERP contribute to the recovery of ESA-listed salmon and steelhead?		
		10:45 - 11:00 AM Sauvie Island Restoration: 10 years of habitat restoration success and lessons learned		
		11:00 - 11:08 AM Dredging for New Ideas for Salmon Recovery: Habitat Reconnection and Restoration in the LCRE		
		11:08 - 11:15 AM Export of macroinvertebrate prey from tidal freshwater wetlands provides an energy subsidy for juvenile salmon		
		11:15 - 11:23 AM Revisiting habitat assumptions at a beneficial use of dredged material site in the Columbia River		
		11:23 - 11:30 AM Experimental control of Phalaris arundinacea in tidal marshes		
10:00 AM	11:30 AM	**Salt Marsh Comparative Ecology: Linking Differences Across Spatial Scales**	Oral	E141
		10:00 - 10:15 AM A globally integrative salt marsh conceptual framework for comparisons across multiple scales		
		10:15 - 10:23 AM Horizontal integrity a prerequisite for vertical marsh stability: comparison of elevation change and the UVVR		
		10:23 - 10:30 AM Tidal restoration may help salt marshes recover from incipient open-water conversion		
		10:30 - 10:45 AM Mummichog (Fundulus heteroclitus) use of salt marshes experiencing megatidal and microtidal regimes in Atlantic Canada		
		10:45 - 11:00 AM Consumers shape saltmarsh carbon storage and recovery		
		11:00 - 11:15 AM Stress gradients structure spatial variability in coastal marsh plant communities		
		11:15 - 11:30 AM The importance of considering spatial variability in salt marsh carbon dynamics		
11:30 AM	1:00 PM	Affinity Group Lunch: BIPOC (Black, Indigenous, and People of Color)	Affinity Groups	Portland Ballroom 255
11:30 AM	1:00 PM	GOMURC Board Meeting (by inivitation)	Special Event (by invitatio	VIP Suite
11:30 AM	1:00 PM	Lunch On Own	General	Pre-function Space Lobby D
11:30 AM	1:00 PM	Portland OCC Concessions	General	GinkoBerry Entry
1:00 PM	2:30 PM	**All Things Climate. All The Time. Weaving Climate Mitigation and Adaptation Into All Aspects of Coastal Ecosystem Management Programs**	Oral	E142-143
		1:00 - 1:15 PM Weaving climate smart adaptation and mitigation practices throughout the Lower Columbia Ecosystem Restoration Program		
		1:15 - 1:30 PM Tribal leadership of a mature observation and prediction system for the Columbia River estuary		
		1:30 - 1:45 PM Promoting Resiliency of Coastal Habitats through Holistic Assessment and Planning		
		1:45 - 2:00 PM Long-term planning implications: requiring climate change mitigation and resilience measures in Washington State		
		2:00 - 2:15 PM ***withdrawn***		
		2:15 - 2:30 PM Quantifying uncertainties in climate projections of Chesapeake Bay hypoxia		
1:00 PM	2:30 PM	**Co-design of Community Science Projects For Coastal Resiliency**	Oral	D139-140
		1:00 - 1:15 PM Community perceptions of mangroves in the U.S Virgin Islands and implications for mangrove outreach		
		1:15 - 1:30 PM Blending indigenous knowledge and emergent technologies to accelerate restoration of traditional coastal Hawaiian Fishponds		
		1:30 - 1:45 PM Backyard Buoys: Equipping Underserved Indigenous Communities with Ocean Intelligence Platforms		

		1:45 - 2:00 PM The value of integrating social and ecological science for regional vulnerability assessments to ocean acidification		
		2:00 - 2:15 PM Cloud-Based Geospatial Data Applications for Streamlining Natural Resource Management		
		2:15 - 2:30 PM Public-private partnerships to support and enhance flooding resilience planning and implementation activities		
1:00 PM	2:30 PM	**Pro-Active Conservation Planning for Protected Lands in a Changing Climate**	Oral	E145
		1:00 - 1:15 PM Using Engineering With Nature® to identify nature-based solutions for NPS's Saint Croix Island NHS		
		1:15 - 1:30 PM Preserving coastal parklands: designing nature-based solutions for Colonial National Historical Park		
		1:30 - 1:45 PM Sea level rise adaptation projects for protected conservation lands in Humboldt Bay, California		
		1:45 - 2:00 PM Impacts of nor'easters and sea level rise on New England national parks and wildlife refuges		
		2:00 - 2:15 PM Imagined Landscapes as a Place of Negotiation in Coastal Adaptation Planning		
		2:15 - 2:30 PM Planning, design, permitting, and monitoring for resilient, ecologically valuable coastlines in a dense urban environment		
1:00 PM	2:30 PM	**Restoring Salt Marshes in the Northeast US: New Approaches, Results**	Oral	E141
		1:00 - 1:15 PM Physical and biological controls of tidal creek sediment exchange in a sediment-nourished salt marsh		
		1:15 - 1:30 PM Unraveling Sediment Delivery and its Role in Boosting Resilience of New England Salt Marshes		
		1:30 - 1:45 PM Early monitoring results from the restoration of Swan Island, Maryland		
		1:45 - 2:00 PM Evaluating Thin-Layer Sediment Placement as a Tool for Enhancing Tidal Marsh Resilience		
		2:00 - 2:08 PM Hyperlocal water level monitoring reveals unpredictable inundation and drainage intervals in emerging marsh pools		
		2:08 - 2:15 PM Assessing salt marsh recovery: Tracking greenhouse gas fluxes, soils, and plant colonization at restored marshes		
		2:15 - 2:30 PM Optimizing hummock design for salt marsh restoration: managing tradeoffs between planting density and revegetation		
1:00 PM	2:30 PM	**The Role of Commercial Nurseries in Restoration Science**	Oral	E144
		1:00 - 1:15 PM Nurseries as socio- and eco-evolutionary filters for the genetics of restored populations		
		1:15 - 1:30 PM Determining best practices for the nursery production of Spartina alterniflora in coastal Georgia		
		1:30 - 1:45 PM Intraspecific outcomes in planted and unplanted salt marsh restorations		
		1:45 - 2:00 PM Effect of dieback on genetic diversity in restored Spartina alterniflora marshes and comparison to native marshes		
		2:00 - 2:15 PM Host source identity affects parasite community structure across time and space in oyster restoration		
1:00 PM	2:30 PM	**Transforming Urbanized Areas Into Coastal Habitat Through Hydrologic Restoration**	Oral	D135
		1:00 - 1:15 PM Restoration of urban salt marsh through hydrologic modification of the Charleston Naval Base Golf Course		
		1:15 - 1:30 PM Reversing habitat homogenization across changing gradients in altered urban Florida drainage systems		
		1:30 - 1:45 PM Using juvenile sportfish metrics for restoration planning and evaluation		
		1:45 - 2:00 PM Restoring the Missing Link – Valley View Golf Course Restoration		
		2:00 - 2:30 PM Panel Discussion		
1:00 PM	2:30 PM	**Using Machine Learning Models to Address Coastal and Estuarine Issues**	Oral	D133-134
		1:00 - 1:15 PM Advancing the use of spatial data in implementing adaptive management to support coastal community resilience		
		1:15 - 1:30 PM Artificial neural networks for riverine biogeochemistry in a real-time environmental forecast system of Chesapeake Bay		
		1:30 - 1:45 PM Exploring Relationships Among and Controls on Water Quality Parameters Across NERRS: A Nationwide Data-Driven Approach		
		1:45 - 2:00 PM Beyond point measurements: Modeling benthic forage response to the duration, extent, and severity of hypoxia		
		2:00 - 2:15 PM ***withdrawn***		
1:00 PM	4:30 PM	**I Can See It, But Is It Working? Assessing Ecological Functions**	Oral	D137-138
		1:00 - 1:15 PM Assessing the condition of seagrasses through the lens of ecosystem function and services		
		1:15 - 1:30 PM Monitoring for management: A modular, ecosystem function-based assessment framework to assess estuarine condition		
		1:30 - 1:45 PM Monitoring for management: Evaluating ecosystem function in California estuaries		
		1:45 - 2:00 PM Shoreline resilience in SF Bay: what does it mean and how can we measure it?		
		2:00 - 2:30 PM Panel Discussion		
		3:00 - 3:15 PM Interpreting wetland monitoring data to meet many stakeholder needs		
		3:15 - 3:30 PM Development of an Acoustic Monitoring Framework for Salt Marsh Restoration Decision-making		
		3:30 - 3:45 PM Effects of Tidal Phases on the distribution of macrofauna along the coast of balochistan Pakistan		
		3:45 - 4:00 PM Evaluating the Influence of Infauna on Seabed Properties in the York River Estuary, Chesapeake Bay		
		4:00 - 4:30 PM Panel Discussion		
1:00 PM	4:30 PM	**Shallow Water Mapping in Coastal Environments: Research, Methods, and Management**	Oral	E146
		1:00 - 1:15 PM An inter-method comparison of drones, airplanes, satellites and sidescan sonar for eelgrass (Zostera marina) mapping		
		1:15 - 1:30 PM Developing a Standardized Framework for Benthic Data Integration & Distribution in Florida		

		1:30 - 1:45 PM Monitoring seagrass: a brief review of current methods		
		1:45 - 2:00 PM Machine learning classification of benthic substrate from AUV images to lake-wide: Challenges and lessons learned		
		2:00 - 2:15 PM Seafloor mapping for natural and cultural resource management within the National Park Service		
		2:15 - 2:30 PM Mapping War in the Pacific National Historical Park (Guam) 80 years after World War II		
		3:00 - 3:15 PM Creating community. Efforts of the SAV Community of Practice		
		3:15 - 3:30 PM Applying CMECS to West Coast Nearshore and Estuary Habitats		
		3:30 - 3:45 PM The CMECS Update: what's changed and why		
		3:45 - 4:00 PM Mapping spatiotemporal changes in seagrass seascapes in South Florida		
		4:00 - 4:15 PM The Cormorant Oceanography Project: mapping shallow-water coastal environments by biologging of diving seabirds		
		4:15 - 4:30 PM Absolute localization of objects in shallow waters using a phase-measuring sidescan sonar		
2:30 PM	3:00 PM	Break	General	Pre-function Space Lobby D
3:00 PM	4:30 PM	**Analysis and Communication Strategies for Coastal Ecosystem Health Report Cards**	Oral	D139-140
		3:00 - 3:15 PM ***withdrawn***		
		3:15 - 3:30 PM Indicators: Scale and Systems Matter		
		3:30 - 3:45 PM The Galveston Bay Report Card: Community Collaboration Leading to Action		
		3:45 - 4:00 PM First Biennial State of the Bays Report: A health check-up for Pensacola and Perdido Bays		
		4:00 - 4:15 PM Advancing the southwest Florida tidal creeks report card: centralizing information and analysis to accelerate management		
		4:15 - 4:30 PM Recent advances in using socio-environmental indicators in coastal health report cards		
3:00 PM	4:30 PM	**Coastal Adaptation and Climate Preparedness in Human and Natural Communities**	Oral	E142-143
		3:00 - 3:15 PM Development and results of a novel coastal adaptation report card		
		3:15 - 3:30 PM Incorporating projections of shoreline features into Virginia regulations on climate resilience		
		3:30 - 3:45 PM Storm-induced flooding drives transformation of social ecosystems in American cities		
		3:45 - 4:00 PM Co-constructing priorities for climate resilience and adaptation in New Caledonia and Fiji		
		4:00 - 4:15 PM RADical solutions to complex climate change problems in south Florida		
		4:15 - 4:30 PM Identifying and assessing climate change threats and adaptations in Charles County, Maryland		
4:30 PM	5:30 PM	CERF 2023 and CERF 2021 Committee Reception (by invitation)	Special Event (by invitatio	Skyview Terrace
5:30 PM	8:30 PM	Close Out Party and Student Awards Presentation	Social Event	Portland Ballroom 253-254, 257-258