

Interagency Collaboration Toward a National Coastal Ecosystem Prediction System - Rebecca Atkins

Marshes provide numerous protective benefits and ecosystem services, but they are increasingly at risk due to coastal development and sea level rise. Process-based modeling provides short- and long-term predictions of marsh ecosystem change and can help resource managers and planners across the US understand when to act and to make better decisions around land acquisition, infrastructure development and evaluating scenario tradeoffs. But in practice, using marsh model predictions to inform decisions has been difficult; data are not always available to local communities, and deciding which model to use and how to use it to inform decisions isn't clear.

This talk will highlight the Coastal Ecosystem Prediction System, a first of its kind effort to advance marsh modeling and develop a user-informed framework for applying marsh models to 1) evaluate and compare marsh model performance and 2) gain a better understanding of marsh habitat change as a result of sea-level rise. We are now one year into leveraging a multi-agency collaboration with growing stakeholder engagement, including both modelers and end-users, to co-develop this framework.

Using a regional co-development approach, the project aims to expand nationwide based on regional foundations in the Gulf of Mexico, New England and California. Ultimately, this approach is aimed towards empowering end users across regions to make informed management decisions both today and into the future. Throughout this talk we will share lessons learned to date, progress, and next steps for expanding our community of practice to others interested in applying this framework.

Creating an AmeriCorps Program for Youth Environmental Career Development - Zachary Nickerson

The American Littoral Society expanded our long-running Restoration Corps (R-Corps) program to create a new AmeriCorps program within the existing summer program, adding more opportunities for crew members to work with the Society in both independent and leadership roles. Through this program we have added to the options available while facilitating fair wages and new educational opportunities, allowing us to build on our work to expand accessibility of R-Corps in the local, low-income areas in which we work through community engagement, the application process, transportation, and compensation. The minimum length of the program necessitated the addition of an extra day of work during the week and an earlier start time, both of which are filled with different hands-on, skill-building experiences for crew members. The connection between upland and Bayshore habitats is a major focus of their work. This includes building and maintaining green stormwater infrastructure, freshwater stream monitoring, and school programming in upland communities, leading to horseshoe crab tagging, building oyster reef habitat, and monitoring of beach restoration efforts. The AmeriCorps program also offers an opportunity for returning crew members to grow in their

involvement with the Society by practicing leadership and independent work skills. We will discuss the process of starting this new program, the logistics of running it in parallel with the existing Restoration Corps program, as well as successes, challenges, and lessons learned.

Media with Impact: Building A Community-Driven Model for Environmental Justice Coverage in the Great Lakes Region - Hira Ahmad

Due to the financial strain of the journalism industry since the early 2000s, local media coverage has been on a decline and created a void of reliable news sources for many underserved communities. Alongside the decrease in local media coverage, large, privately-owned and corporatized mainstream media have been a predominant source of news. Both the corporatized media and the decline in locally-sourced news have contributed to less accurate and authentic reporting of frontline environmental justice communities. Specifically, with regard to the environmental journalism field, many journalists lack the general knowledge, training, and resources to accurately report on environmental justice issues. In lieu of this situation, there is a growing need and interest to help rebuild media organizations to more equitably uplift the narratives of frontline environmental justice communities.

While some existing toolkits and literature provide media organizations with suggestions on how to equitably engage with communities and/or how to center equity in environmental and climate change reporting, this study seeks to further the field by prioritizing the diverse insights of key stakeholders into a comprehensive set of recommendations intended for both media organizations and philanthropic institutions. The key findings from our study have been operationalized into a toolkit that provides recommended goals, strategies, and actions for media organizations and journalists to advance equitable and community-based environmental journalism. Thus, the recommendations in this report and our corresponding toolkit will help to amplify the lived experiences and stories of frontline environmental justice communities in order to promote community change.

Challenges and opportunities for informing coastal resilience project implementation with advanced coastal science - Trevor Meckley

With unprecedented federal investments in coastal community and ecosystem resilience, federal, state, tribal, and local entities are tasked with determining their vulnerability, identifying activities towards mitigating current and future risk, and prioritizing which actions to propose for financial and leadership-level support. Those funding the work are tasked with evaluating and selecting from proposals that may lack innovation or offer a limited understanding of how different possible actions will perform in combination.

NOAA's Effects of Sea Level Rise (ESLR) Program has spent the past eight years incentivizing the collaboration of interdisciplinary teams across the country to advance the science and products needed to inform coastal managers of local coastal vulnerability and solutions to mitigate food risk, while also holistically considering the built and natural

infrastructure. However, there is a need to integrate these efforts with other funding opportunities that support the implementation of on-the-ground resilience projects. Ultimately, this will help to ensure that the advanced science capable of evaluating climate, flood, and management scenarios is being used to maximize federal investments.

This talk will highlight NOAA's Effects of Sea Level Rise (ESLR) Program to discuss a range of program-level considerations, from identifying science gaps to facilitating science advancement and application at local and regional scales. We will present several case studies representing successful collaboration, as well as strategies and lessons learned for connecting cutting-edge science to coastal communities seeking technical assistance.

Development and Implementation of the National Fish, Wildlife, and Plants Climate Adaptation Strategy - Jason Goldberg

The National Fish, Wildlife, and Plants Climate Adaptation Network (Network) supports the diverse, collective voice of the natural resource community on issues related to climate adaptation and is made up of representatives from federal, state, tribal, academic, and non-profit organizations. The Network provides leadership, coordination, and collaboration to navigate change and advance climate adaptation strategies for the fish, wildlife, and plants of the United States.

The Network prepared the first National Fish, Wildlife, and Plants Climate Adaptation Strategy (Strategy) in 2012 at the direction of Congress and is in the process of updating the Strategy, with a final draft expected later in 2024. This session explores the changes to the Strategy and how it can be implemented to increase resilience of coastal habitats, species, and communities in a changing climate. One of the most significant changes is the incorporation of goals, strategies, and actions to engage communities, especially those that have been disproportionately impacted and historically excluded from the planning and decision-making process, in identifying and implementing solutions that equitably benefit both wildlife and communities.

This session will feature an overview of the Strategy and highlight actions by Network partners to translate the Strategy into action and use it to successfully help address climate change impacts on coastal natural resources. Participants who join the session will come away with a better understanding of how the Strategy can inform coastal habitat conservation and restoration and learn about opportunities to get involved with Network members.