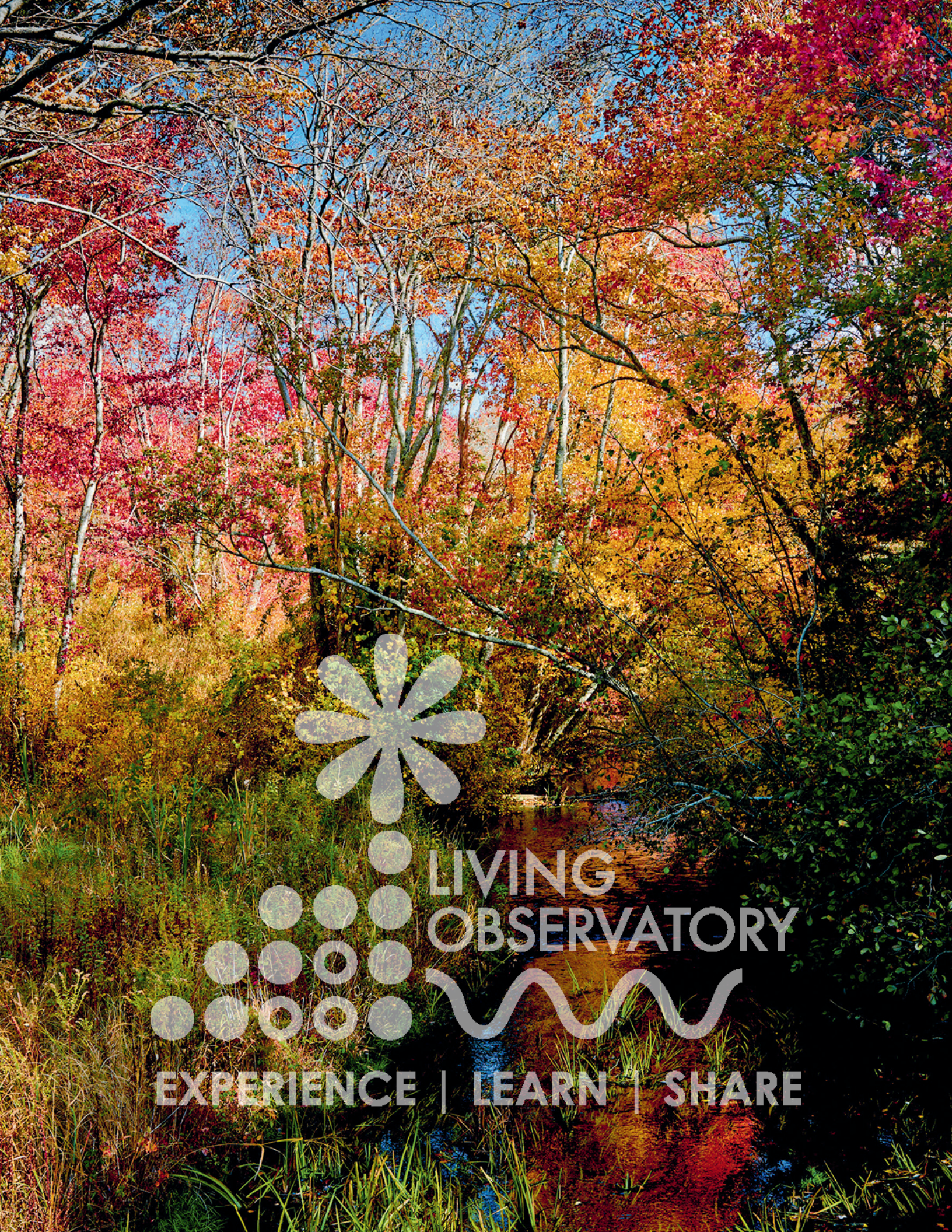
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There are around 70 active projects on the LO site. Here is a sampler of active projects and primary contributors to each project

Cranberry Bog Restorations

Century Bog: Sara Quintal
Childs River Restoration Project: Mike Palmer
Cold Brook Eco Restoration: Eric Ford
Coonamessett River Restoration Project: Elizabeth Gladfelter
Eel River Headwaters Restoration Project: David Gould
Marstons Mills Cranberry Bog Eco-Restoration Project: Comprehensive Study Area: Zenas Crocker, Heather Rockwell, Luke Cadrin, Nick Nelson, Sondra Shah, Scott Horsley, Jessica Cohn, Wilkinson Ecological, Jessica Cohn, Living Observatory
Sampson's Brook Headwaters Restoration Project: Matt Penella, Elisabeth Cianciola, Christine Hatch
Stuart Bogs Restoration Project: Sara Quintal
Tidmarsh Farms/Beaver Dam Brook wetland and river restoration project: Glorianna Davenport, Alex Hackman
Upper Coonamessett River Wetlands Complex Restoration Project: Elizabeth Gladfelter
Windswept Bog, Nantucket Island MA: Watershed-scale Wetland Restoration and Research: Karen Beattie

Science and Monitoring to Understand Wetland Development

Bird Monitoring at Select Cranberry Bog Restoration Sites in Southeastern Massachusetts: Alan Kneidel, Lisa Schibley
Monitoring of Wetland Restoration Properties: Jason Andras, Kate Ballantine, Glorianna Davenport, Christine Hatch, Chris Neill, Brian Mayton, Adrian Wiegman, Alan Kneidel, Lisa Schibley, Thilina Suransinghe, Jessica Cohn, William Giuliano, Sarah Klionsky, Patrick Farrar
Potential Nitrogen Removal by Restoring Wetlands on Retired Cranberry Bogs: Casey Kennedy, Adrian Wiegman, Molly Welsh
Quantifying Nutrient Transport and Transformation in Stream Channels Associated with Active, Retired, and Restored Cranberry Farms: Casey Kennedy, Molly Walsh
The Anthropogenic Aquifer: Christine Hatch, Lyn Watts
Distributed Temperature Sensing in the Hydrologic Understory: Christine Hatch, Lyn Watts
The Effect of Ecological Restoration on the Structure and Function of Soil Microbial Communities in Cranberry Bogs: Jason Andras, Kate Ballantine
The Hydrologic Understory: Christine Hatch
The Influence of Soil Amendments on Ecosystem Functions in Restored Cranberry Bogs: Kate Ballantine, Jason Andras
Using Thermal Mapping to Identify Groundwater Inflows in the Wetland: Christine Hatch, Lyn Watts
Vegetation Responses to Restoration of Massachusetts Cranberry Bogs: Chris Neill, Sarah Klionsky, Patrick Farrar
Volunteer River Herring Monitoring at Beaver Dam Brook and Manomet Brook: Sara P. Grady, Robert Vincent, Glorianna Davenport, Kimberly Snyder

Growing AWC

Growing Atlantic White Cedars for Wetland Restoration Sites: Glorianna Davenport, Alex Hackman, Nick Nelson, Claire Esterman, Irene Caldwell, Olivia Kurz, Chistine Hatch, Adrian Wiegman, Patrick Farrar
Mycorrhizal Research on Atlantic White Cedar Swamps in Southeastern Massachusetts: Olivia Kurz

Education and Outreach

Fear to Hope Atlantic White Cedar Research: Lou-Anne Conroy, Glorianna Davenport, Kim Snyder, Rob Atkinson
Living Observatory Field Guides: Lou-Anne Conroy, Glorianna Davenport, Adrian Weigman
Student-driven Restoration Research: Learning about ecosystem health through biodiversity surveys on restored cranberry bogs in Plymouth, MA: Elizabeth Bone

Sensors and Technology

Living Observatory Sensor Network: Brian Mayton
Soil Moisture in the Wetland: Christine Hatch, Brian Mayton
Soil Moisture Sensor Node Development: Ben S. Weiss, Brian Mayton
Soundscapes to Monitor Habitat Development on Restored Cranberry Farmland: Florencia Sangermano
Tidzam: AI-based Wildlife detection, identification and geo-localization: Clement Duhart, Brian Mayton
Wetland Memory: Documenting Restoration With Ecological and Cultural Archives: Jack Wathieu

Visit our website or scan the QR code at right to find out more about LO projects

On the cover: October 23, 2025, *Beaver Dam Brook on the Tidmarsh Wildlife Sanctuary. Photo: Natalia Tsarkova*

INTRODUCTION

Living Observatory (LO) is a non-profit **learning collaborative** of technologists, scientists, restoration practitioners, and organizational leaders who seek to amplify collective knowledge and conversation around wetland restoration of retired cranberry farmland in Massachusetts. To this end, LO builds tools and community to enhance the **experience** of place, **learn** from science, and **share** the *arc of change* of multiple restoration sites. LO is funded through grants, contracts, and donations from people who are passionate about natural resources and open space.

This report summarizes LO's progress and impact from July 2024 through June 30, 2026.

As a learning community, we want to know: ***Did the restoration intervention work? What can be improved? How did the project impact the surrounding human-natural landscape? How do we measure the environmental impact of a single project? What is the overall impact? What are the challenges for future stewardship? How can we share the story of nature healing?*** The LO community makes answering these questions possible.

- ***We are a community of doers.***
  LO includes people who are engaged in cranberry farming, wetland restoration, land protection, and technology and communication innovation. LO grows as members of the community develop and share projects focused on biodiversity, hydrology, ecology, and storytelling.
- ***We use science and technology to link learning and practice.***
  Our web-based platform provides access to project narratives, images, monitoring data, and shared insights. Input from the community increases collective wisdom which in turn improves practice.
- ***We curate a culture of learning.***
  LO helps teams shape learning agendas and story webs. Improvements to our *platform* and innovative summits promote the exchange of knowledge and contribute to the growth of a committed, interdependent, and resourceful restoration community.

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"Ecosystems are complex, beautiful, and sometimes damaged. Healing Nature takes people, time, and resources. To be effective, we must come together to share experiences, what works, and what can be improved. Living Observatory plays that critical role of sharing insights, coordinating learning, and maintaining camaraderie. Wetland restoration on former cranberry farms is still a new practice. I'm grateful for this learning community and how it's helping to improve our understanding and practice over time."

~ Alex Hackman,
Director of Ecological Restoration, Mass Audubon

June 8, 2026: *Tidmarsh Wildlife Sanctuary 10 years post-active restoration. Photo: Alex Haggart*

Transforming Agricultural Lands: An Opportunity and a Challenge

"In 2010, the U.S. Department of Agriculture was spending around $5.5 billion annually on restorations; however, there was no funding for long-term monitoring. If you don't monitor, how can you learn and improve?"

~ Evan Schulman

May 3, 2018. *Green Heron. Photo: Cyndi Jackson*

Our changing climate is dramatically impacting landscape stewardship. Biodiversity is being lost at an unprecedented rate, and we face chronic problems related to water pollution and the removal of critical natural resources. While this looming ecological crisis often generates despair around how to make meaningful impacts, land protection and restoration of degraded landscapes provide a positive lens to act, connect with nature, and build local learning communities.

Recent research by Mass Audubon suggests that cranberry farming may have taken place on 21,109 acres in Southeastern Massachusetts.[1] Many active as well as retired farms are over 100 years old and most of the older farms were built on wetlands. When LO was founded in 2011, following the Schulman family decision to protect and restore much of the 630-acre Tidmarsh Farms, only a few people recognized that cranberry farming in Massachusetts had entered challenging times, and fewer still recognized land protection and wetland restoration as a potential path forward for retired farmland.

Wetland restoration of this farmland promises to provide valued environmental benefits. By buffering land and water temperatures, providing water storage for large storm events, and acting as long-term carbon sinks, connected wetland complexes contribute to climate preparedness. Water-loving plants growing across a wetland filter out pollutants, including excess nitrogen, and provide food supplies that support a diversity of plant, animal, and insect species. Wetland restoration of cranberry farmland generally results in publicly accessible open space contributing to the health and well-being of people. LO researchers involved in monitoring restoration are helping us understand the scale of these benefits.

Today there are upwards of 25 wetland restoration projects in process on retired bogs in Southeast Massachusetts, **and the LO community plays a part in all of these.** While the design of each restoration varies, depending on the site's hydrology and topography, as well as the goals of landowners and funders, these projects share similar agricultural modifications and the aim of jumpstarting a naturally evolving wetland with increased biodiversity and improved connectivity. However, experience, observations, and lessons learned on one site will only **advance practice** if they can be articulated, shared, and discussed within and beyond the community.

As projects progress, LO plays a pivotal role as a knowledge hub for restoration in the future. LO encourages members post updates to communicate their project framework, critical decisions, monitoring data, and insights. Over time, LO curates and amplifies collective wisdom with the goal of highlighting innovation, progressing long-term land stewardship, and advancing public understanding of wetland ecology.

[1] https://experience.arcgis.com/experience/e38e3946f-3e44580a2c4787081e1f03f

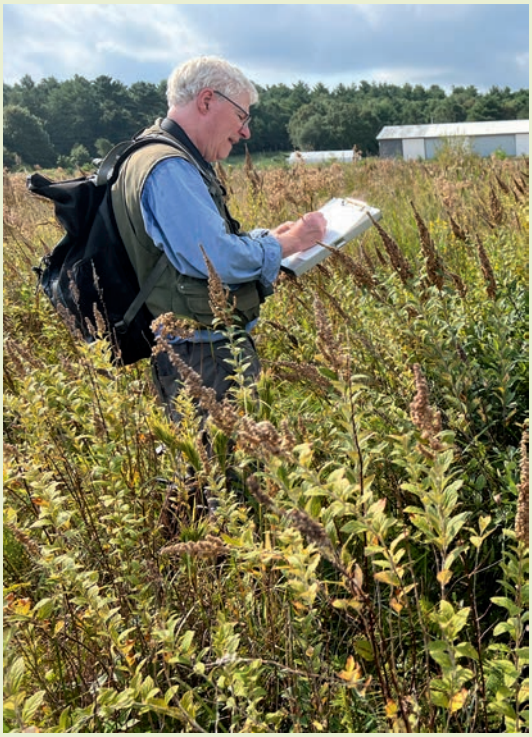
Our Community of Doers

LO has 116 active members. Here is a snapshot of our community of doers in action.

▲ ***May 21, 2026:*** *Kate Ballantine and Jason Andras monitor soils at Millbrook Bogs.*

▲ ***June 12, 2026:*** *Jason sorts through soil packages in the lab.*

"...As existing sites move through the 3-, 5-, 7-, and 10-year sampling intervals, the dataset is becoming increasingly powerful."
~ Jason Andras



▲ ***September 9, 2023:*** *Chris Neill samples vegetation at Tidmarsh Farms.*

▲ ***July 30, 2025:*** *Interns Cecelia and Max prepare to transplant Atlantic white cedar trees.*

▲ ***August 16, 2025:*** *Brian Mayton and Adrian Wiegman install moisture sensors, Upper Coonamessett.*

◀ ***August 15, 2025:*** *Haley Miller, Luke Cadrin and Marigold Cadrin sample vegetation at the CSA area of the Marstons Mills Restoration.*

Our Administrative Team

"As SER states in its handbook, restoration is "a process." [2] In the early days, we were learning how to do restoration on cranberry farms, how to restore hydrologic and topographic connectivity. Today, 5 to 10 years post restoration, we are learning that the "process" of healing requires leadership not only for design, permitting, and construction, but also post-construction for monitoring, stewardship, and adaptive management. As older bogs continue to be retired, the accumulated knowledge held by landowners, agencies, municipalities, non-profits, and others becomes increasingly valuable to the restoration effort.

~ Glorianna Davenport

"I work with Living Observatory because I believe wetland restoration matters for our future, and I build the technologies that help this unique community of researchers, practitioners, and artists document their work and collaborate toward that goal."

~ Brian Mayton

As a trained scientist, I specialize in modeling and empirical research. At Living Observatory, I learn from and contribute to a diverse community of restoration practitioners, researchers, and artists. Being part of LO makes me feel that my work can impact future restoration projects in our region."

~ Adrian Wiegman

President | Glorianna Davenport

Glorianna Davenport is a co-founder (with Alex Hackman and Hyun Yeul Lee) and current President of LO. As a trustee of Tidmarsh Farms, Inc., Glorianna advocated for conservation of the farms and from 2008–2017 participated as the owner's representative in the wetland restoration of what is now the Mass Audubon Tidmarsh Wildlife Sanctuary, the second and largest wetland restoration in Massachusetts. With her husband, Evan Schulman, she worked on the protection and acquisition of Foothills Preserve by the Town of Plymouth (2017). Glorianna trained as a documentary moviemaker and is a co-founder of the MIT Media Lab (1985).

Technology Lead | Brian Mayton

Brian Mayton joined LO as a sensor network specialist and lead technologist in 2020. Prior to joining LO, Brian designed, built, and deployed a large-scale low-power sensor network at Tidmarsh Farms, the property that spawned LO, and explored how combining sensor data with rich audio and video streams can help us learn from and enjoy restored wetlands. This work earned Brian a Ph.D. from the MIT Media Lab (2020) and reinforced LO's vision for project-based research, collaboration, sensor landscapes, and documenting the transformation. At LO, Brian continues to develop technologies and systems for experiencing, monitoring, learning, and sharing the arc of change as it occurs on restored wetlands.

Learning Coordinator and Data Specialist | Adrian Wiegman

Adrian Wiegman joined LO as a Learning Coordinator and Data Specialist in January 2025. Adrian amplifies LO's outreach to the community. In addition to familiarizing members with the LO platform, Adrian collaborates on learning strategy with the Making Space team at Mass Audubon, coordinates fieldwork for planting Atlantic white cedar, develops LO summits, and streamlines administrative reporting for these activities. Adrian is lead author on "Modeling attenuation of nitrogen loads delivered to coastal bays from ecological restoration of cultivated wetlands." Journal of Geophysical Research: Biogeosciences, September 2025. [**https://projects.livingobservatory.org/pubs/modeling-attenuation-of-nitrogen-loads-delivered**]

[2] Society of Ecological Restoration, Handbook, 2004

Board of Directors and Officers

Jessica Mahr (Secretary), *Director of Technology, Environmental Policy Innovation Center*
Christine Hatch (Director), *Extension Professor, University of Massachusetts Amherst Earth, Geographic, and Climate Sciences*
Gershon Dublon (Director), *Principal Research Scientist, Sonos, Inc.*
Glorianna Davenport (President)

Evan Schulman (Treasurer), *Tidmarsh Farms, Inc., Tykhe*

Key Achievements: July 2024 — June 2026

Since our founding in 2011, LO has grown strong collaborations across the cranberry farming, conservation and wetland restoration communities in Massachusetts. We are proud of the breadth and depth of our collaborations with leading academic researchers, environmental organizations, municipalities, and agencies in Massachusetts and beyond.

Member Reach

- 116 active members share projects, data, and insights on our platform, an increase of over 25% since July 2024.
- LO Summit 2026, "Monitoring Innovative Practice," was held at the UMass Cranberry Station on May 22, 2026. Organized by our Learning Coordinator, Adrian Wiegman, the event brought together landowners, restoration practitioners, and researchers from across the restoration field to learn from one another. A report about the Summit can be found here. [**https://projects.livingobservatory.org/projects/summits/web/2026/report**]

Community Initiatives and Partnerships

- LO contracts with the Massachusetts Division of Ecological Restoration's Cranberry Bog Restoration Program (DER-CBRP) to monitor their 20 Priority Projects. Our monitoring team includes Christine Hatch, UMass-Amherst for hydrology, Kate Ballantine and Jason Andras for soils, Christopher Niell, Woodwell Climate Research Center for vegetation, (under a separate contract with Woodwell).
- In addition to active restorations, this team monitors select natural wetlands, retired bogs that were not restored, active farms, and Atlantic white cedar swamps..
- LO Native Plant Nursery donated 300 Atlantic white cedar (AWC) trees to the Upper Coonamessett Wetland Project to explore survivorship of younger and older AWC at recently renovated bog sites. The experimental design was developed by LO in collaboration with MA Division of Ecological Restoration Cranberry Bog Restoration Program, Woodwell Climate Research Center, and the Town of Falmouth's Upper Coonamessett Wetland Project.
- Ben Weiss, a PhD student at the MIT Media Lab and LO member, is developing a low-cost soil moisture sensor. Soil moisture is a leading indicator of wetland status. We anticipate that the experimental sensors will be deployed at Tidmarsh in the coming months.

Publications

- In 2025-2026, LO members published six peer reviewed papers. [**https://projects.livingobservatory.org/pubs**]
- Congratulations to Lyn Watts on the completion of her PhD from University of Massachusetts - Amherst. Her dissertation, *The Hydrologic Evolution of Foothills Preserve: From Cranberry Farm to Restored Freshwater Wetlands*, provides an in-depth exploration of the changing hydrology and vegetation pre- and post-restoration on the Foothills Preserve (restored 2021).
- LO published its **first Field Guide**. Developed by Lou Ann Conroy, a biology teacher at Plymouth South, the guide is intended to support and augment AP biology and ecology curricula in the Plymouth High Schools.

"The work of LO scientists helps improve restoration techniques, develop new approaches, and explain restoration projects to broad audiences."

~ Christopher Neill, Woodwell Climate Research Center

116 active members share projects, data, and insights on our platform

300 AWC trees donated to the Upper Coonamessett Wetland Project

Experience

Watch wildlife nest and migrate, listen to their rhythm and song. Feel the moist spongy sphagnum moss and as you take a soil sample. Smell the fresh air. Get outside and explore the natural beauty and rich cultural history in Southeastern Massachusetts with our collection of field trips and activities.

Dig Deeper

Follow your curiosity and delve into our growing catalog of educational resources.

Sample page from LO's first Field Guide

Building Out the Community Learning Platform

"The Nantucket Conservation Foundation benefitted greatly from the community of learning we have joined through the Living Observatory's incredible work. At the beginning of our restoration project at Windswept Bog, we learned so much from the wetland restoration practitioners and researchers we connected with through the LO network, gaining insight into techniques that worked well at completed restorations. Now, it is our turn to contribute our lessons learned and pay it forward to those who are still in the planning phases of their projects."

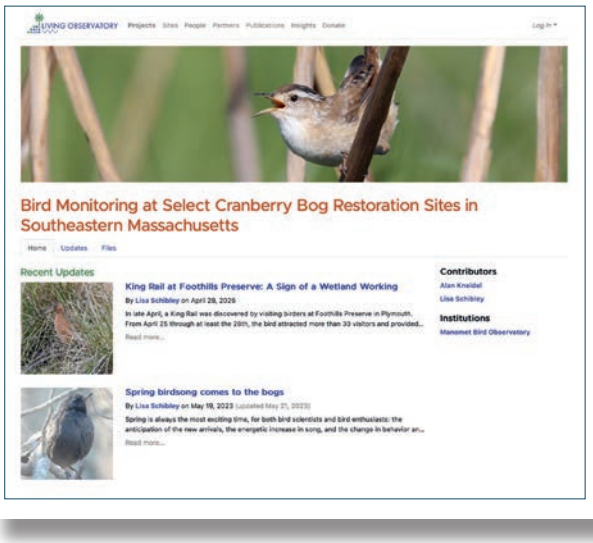
~ Karen Beattie, Nantucket Conservation Foundation

The *Community Learning Platform* is a core asset of LO. Without a shared platform, projects are disparate and monitoring data is siloed. By creating a centralized collection of shared stories, insights, and data, LO provides framework for learning that will improve outcomes of current and future restoration projects. Since 2024, the LO community has submitted over 150+ project documents and insights to the platform. **projects.livingobservatory.org**

150+

project documents & insights have been added to the Community Learning Platform since 2024

- **In-Depth Storytelling:** The Community Learning Platform visualizes connections between people, projects and project updates, sites, publications, and partners. The stories behind a restoration or research project can be complex. Members who wish to provide more detail about a project may create a project web. ***Project webs*** structure the equivalent of chapters so that the author can convey interrelated aspects of a project including details about special topics. Well- constructed webs invite the audience—be they landowners, abutters, funders, researchers, students, or reporters—to discover the story according to their interest or need and connect with others who are working on similar issues.
- **Shared learning across large collaborative projects:** The ***Insights*** tab on the LO platform invites individuals to articulate and post hunches or observations about a project. Shared with the project team or the broader public, hunches and observations made at any time during a multi-year project can help inform project evaluation, future stewardship, and the next generation of projects. By capturing and sharing these reflections as they occur, learning becomes a core value of these projects, making them less transactional and more reciprocal.
- **Image sets and shared albums:** Photos, whether collected as part of a rigorous photo monitoring protocol or taken as casual snapshots while working in the field, are important data that capture and track the arc of change. Recent additions to the platform allow members to upload, organize, and share large batches of photos, furthering our vision of the platform as a central repository for restoration data. Tagging and associating photos with the locations in our database will help scientists find photos by property or monitoring plot. This geotagged photographic record can provide context when analyzing and interpreting data and can provide a powerful witness for telling the story of restoration.



- **Monitoring and evaluation:** Monitoring these restoration sites and analyzing these data over the long term is critical to learning and improving restoration interventions. The LO platform supports geo-location databases and provides a map-based visualization of monitoring point-based or plot-based locations. Once the database is set up, researchers can upload geotagged monitoring data and photos directly from the field. By aggregating this information for multiple restoration sites on one platform, LO amplifies the value of monitoring for all partners as well as the public.

LO's Native Plant Nursery

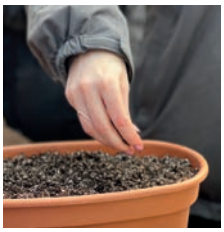
Atlantic white cedar swamps are a unique and threatened ecotype that are found along the Atlantic coast from Maine to Florida. Wetland restoration provides an avenue to strengthen the presence of this species in Massachusetts.

In 2013, LO founded a Native Plant Nursery and began growing Atlantic white cedar for the Tidmarsh Farms Restoration Project. Since 2013, over 10,000 LO grown Atlantic white cedar have been planted on restoration properties. Over the past 15 years, LO refined growing protocols and participated in experimental deployments of our trees. Our current explorations include comparing trees grown from seed gathered in Virginia with seed gathered within a 30-mile radius of Tidmarsh, evaluating the survivorship of younger and older plantings, and Rob Atkinson's *Fear to Hope* educational program in which high school students in advanced biology grow seedlings for a year as they run experiments to measure seedling response to variables such as water salinity and pH. In this work, LO seeks to discover approaches that minimize the costs associated with jumpstarting Atlantic white cedar communities on restoration sites.

July 30, 2016: *Atlantic white cedar, Tidmarsh Farms Wetland Restoration*

May, 2025: *Experimental AWC planting at Upper Coonamessett Wetlands Restoration to explore survivability of older and younger saplings. Ponded areas indicate low spots created by excavation of micro-topography.*

LO is collaborating with Christine Hatch (UMass-Amherst) and the Mount Grace Land Trust to explore restorative land management strategies for Atlantic white cedar forests. In February 2025 we planted some of the seed Andre StrongBearHeart Gaines (No Loose Braids) had gathered in two AWC forests in Nipmuc territory. We are grateful for Andre's understanding and practice of traditional ecological knowledge to create the best possible conditions for germination and survival of these seeds.



CLOSING

Monarch Butterfly and caterpillar.
Photo: Cyndi Jackson

The Tidmarsh Restoration provided the launching ground for the Living Observatory in 2011, a collaborative of researchers, artists, and restoration practitioners who are learning together through measuring and sharing the Arc of Change through science, practice, and the arts.

The wetland restoration of cranberry farm land in Southeastern Massachusetts introduces a process of recovery that over time should increase coastal resilience, biodiversity, and climate preparedness, even as it reconnects people to the land. LO serves as a knowledge hub for this effort. We provide a living archive, a structure that invites the vibrant and growing learning community of specialists engaged in these restorations to share project history, advance insights, and preserve monitoring data.

Today, LO is focused on long-term sustainability, including finding the next leader, strengthening our board, and expanding our data sets. We welcome conversations and collaborations that build value, grow, and sustain LO and its role in stewarding our collaborative learning community.

LO is grateful to the individuals, private foundations, and government agencies who provide critical support for our mission. This includes members who share their work on the LO website and at LO Summits. Individuals and foundations who have provided financial support and organizations who have awarded grants or contracts that support the work include: Massachusetts Division of Ecological Restoration Cranberry Bog Restoration Program; EPA Southeast New England Program (SNEP); NOAA and the Massachusetts Audubon Society; USGS; University of Massachusetts-Amherst; The Goldenrod Foundation; Barnstable Clean Water Coalition; and the Massachusetts Executive Office of Energy and Environmental Affairs Municipal Vulnerability Program and Herring Pond Wampanoag Tribe.

LO and members of the Schulman family recognize that the Tidmarsh Farms properties are ancestral lands of the Herring Pond Wampanoag Tribe. In 2025 LO and the family welcomed Chairwoman Melissa Ferretti, Golden/Yellow Dragonfly, and members of the tribe, along with representatives from Mass Audubon and the Town of Plymouth to explore the homestead parcel and discuss its future. This effort was funded by a grant to the Tribe from the Massachusetts Executive Office of Energy and Environmental Affairs.

☛ CALL TO ACTION

How you can help Advance the Restoration and Conservation of Cranberry Farmland in Massachusetts

If you are a **doer** engaged in these restorations, you can help build the living archive**: Develop** your project, **add** your data, and **articulate** your insights on the LO platform. If you are a new member and have a project that is not yet on the platform contact us at **info@livingobservatory.org**

If you appreciate open space and believe these wetland restorations contribute to climate preparedness, biodiversity, and open space in Massachusetts, consider a donation. Go to our website or scan the QR code. We are a 501(c)(3) organizatioin. **Your Donation will support long-term monitoring, improve restoration outcomes, extend our learning initiatives, and encourage landowners and communities to value wetland restoration.**

Living Observatory's 2026 Summit

On May 22, 2026, Living Observatory hosted a one-day summit at the UMass Cranberry Station and via Zoom, focused on innovative wetland-restoration practices and ecological monitoring on retired cranberry farms.

In total, 40 people attended in person and eight participated online, representing:

- **Land trusts/owners:** Mass Audubon, Nantucket Conservation Foundation, Buzzards Bay Coalition, Barnstable Clean Water Coalition, Association to Preserve Cape Cod, and Cape Cod Cranberry Growers' Association (a.k.a Massachusetts Cranberries)
- **State and federal agencies:** Massachusetts Division of Ecological Restoration, US Department of Agriculture, US Geological Survey, and US Environmental Protection Agency
- **Research institutions:** UMass Amherst, Boston University, University of Connecticut, MIT, Clark University, Mount Holyoke College, and Woodwell Climate Research Center
- **Engineering firms:** Inter-Fluve, Fuss & O'Neill, and Horsley Witten Group

Glorianna Davenport kicked off the summit by reflecting on the first decade of restoration projects and suggested that we are in the beginning of **Restoration 2.0**, a new era in cranberry farm wetland restoration. The sessions helped frame that vision.

Across the presentations and discussions, six connected themes emerged that define **Restoration 2.0** projects:

- Monitor scaled to project goals
- Design within connected and changing systems
- Make restoration tradeoffs explicit
- Use adaptive management during construction
- Plan for long-term stewardship
- Build partnerships, and shared knowledge

Restoration is "the process of assisting in the recovery of an ecosystem that has been degraded, damaged, or destroyed." *(Society of Ecological Restoration, 2004)*

What distinguishes Restoration 2.0?
Restoration 2.0 will resurrect the idea that restoration is a *process* that embraces reciprocity. As these restored sites develop we need to monitor, steward, and learn how to adjust the trajectory, if warranted. We also need to engage the broader community, including indigenous groups to take ownership in ways that maintain habitat and augment value.

Top left to right: *Danielle O'Dell, Scott Horsely, Andrea Jerabek.* ***Bottom left to right:*** *Neal Price, Andrea Judge, Eric Ford*

Great Blue Heron. Photo: Cyndi Jackson

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Living Observatory (LO) is a public interest **learning collaborative** of scientists, artists, and wetland restoration practitioners engaged in documenting, interpreting, and revealing the arc of change as it occurs prior to, during, and following the ecological wetland restoration on retired cranberry farms.

LO was initially founded in 2011 to complement the trajectory of the Tidmarsh Farms Restoration Project, the largest freshwater wetland restoration project in Massachusetts to date, and the associated restoration at Foothills Preserve. LO now supports collaborative work on over twenty wetland restoration sites on retired cranberry farmland.

June 9, 2018. Red fox.
Photo: Cyndi Jackso

All photos not credited are
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For more information:

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livingobservatory.org