

# COASTWATCH

Center for Coastal Studies  
Provincetown, Massachusetts

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Financial  
Reports







# Letter from the Executive Director

Dear Friends,

Since January I have had the honor to serve as your new Executive Director here at the Center for Coastal Studies - the humble research lab and marine field station with an outsized impact that I have admired for so long. Having studied the four branches of oceanography – chemical, physical, geological, and biological – I feel uniquely connected to the work and

mission of the Center and the forces that sustain our aquatic home.

I also feel privileged to continue the legacy of my friend Richard Delaney as CCS moves into its next development stage, bringing college students to study at the tip of Cape Cod, providing a home for visiting scientists from around the world, and working with cutting edge technology - such as understanding coastal animals by using environmental DNA or deploying kayak drones to map nearshore environments.

The incredible CCS lab, filled with experts in every realm of ocean science, resonates with my training as a chemical oceanographer. We are in many ways a microcosm of the Woods Hole Oceanographic Institution. With the Center's 46 years of research and exploration we are uniquely positioned to drive the understanding and awareness that will ultimately protect and preserve the coastal waters and habitats around us. And, our expertise at spreading this information into the community catalyzes people to act on behalf of the marine environment. Climate change impacts on our marine ecosystems and our daily lives are increasing and we need the best information available to adapt to a changing world.

All of this happens because of our dedicated team of 48 people, our amazing interns and volunteers, and because of you! The Center has a lot of challenges - employee housing, equitable opportunities and salaries, working toward a healthy environment as well as advising policy makers and the public. I am confident with all of us working together we can tackle these challenges. Thank you so much for your continued support!

*“Individually, we are one drop. Together, we are an ocean.”*

– Ryunosuke Akutagawa  
(Japanese poet and writer)

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Cover Photo: Jennifer Burkhardt, Water Quality Monitoring Program research assistant, collects a water sample from West Bay in partnership with the Barnstable Clean Water Coalition.



# Marine Fisheries Research

*Owen Nichols, of the CCS Marine Fisheries Research program, collects water from Provincetown's East Harbor with the assistance of AmeriCorps of Cape Cod volunteers.*



*Maddy Oerth, a Year 23 AmeriCorps Cape Cod service member, assisted the marine fisheries program last year.*



*Owen Nichols, (above) shows Eastham fourth grade students a specimen collected from Salt Pond as part of an educational school program. Eastham students and Nichols (below) use nets to collect samples from Salt Pond.*



The CCS Marine Fisheries Research program has been working closely with scientists and students from the National Park Service's Cape Cod National Seashore as well as Antioch University to study horseshoe crab and shellfish populations in East Harbor, also known as Pilgrim Lake, a coastal lagoon in Truro and Provincetown on the Outer Cape.

The construction of the railroad in the 1800s isolated East Harbor from Cape Cod Bay, East Harbor is now connected to the Bay only by a culvert under Route 6 and Shore Road, a mechanism that for years functioned simply as an overflow to prevent rainwater from overflowing the lagoon and flooding the highway.

In September of 2001, a low oxygen event and fish kill prompted the town of Truro and Cape Cod National Seashore to investigate options for restoring the East Harbor system, and in the following year, the Seashore began a tidal restoration project, allowing the tide to run in and out of the culvert. The lagoon quickly turned from brackish to estuarine/saltwater conditions and its water quality improved. Fish and shellfish returned to the system relatively quickly, but in the years following the restoration, their numbers fluctuated from year to year. This summer, CCS Marine Fisheries Research Director Owen Nichols collected zooplankton samples as part of a study of shellfish abundance and distribution in the East Harbor system. Owen will be analyzing these samples this winter, comparing the numbers of bivalve (two-shelled molluscs like clams and mussels) and crab larvae in samples collected on incoming and outgoing tides to understand factors driving changes in the abundance of shellfish and their predators (such as the invasive green crab). While the Marine Fisheries program often works offshore with the Cape's commercial fishing community, we also frequently respond to community concerns by looking inshore at the vital habitats of our bays, marshes, and coastal lagoons.



# Whale Research & Response

## Marine Animal Entanglement Response

In 2022 the Marine Animal Entanglement Response (MAER) program continued its efforts to disentangle whales and sea turtles, enhance entanglement response globally, and gather information detailing the extent and impacts of entanglements. As in prior years, the MAER team was ready on a daily basis to respond to animals in distress, and freed seven whales and sea turtles. The information from each case is shared with collaborators and is also fed into ongoing studies of the entanglement issue.

Early in the year, the MAER team and collaborators published a peer-reviewed paper describing the entanglement problem facing leatherback sea turtles off the coast of Massachusetts as well as our efforts to disentangle them (scan the QR code below to read the report). Leatherbacks, the largest sea turtles in the world, are endangered and declining in the North Atlantic. This new study finds that, as with whales, leatherbacks are prone to entanglement in the fishing gear most common within their foraging area. This information will be helpful in discussions to reduce entanglement impacts. An outgrowth of that work has been a collaborative effort to follow up on disentangled leatherbacks using telemetry tags applied to their shell prior to release. Two of the four leatherbacks disentangled this year were outfitted with tags. As our sample size increases, we will be better able to assess the fate of leatherbacks after they have been freed.

Our effort to increase entanglement response capacity and safety continued in 2022 through our collaboration with the Global Response Network managed by the International Whaling Commission and with regional response networks here in the US. The team hosted four responders for



*MAER team member Paulette Durazo studies an entangled humpback whale calf located off Chatham in June. The team was able to successfully disentangle the whale.*

training, including two people from the US East Coast and two from the Pacific Coast of Mexico. Despite pandemic-related challenges, CCS's team also continued to provide entanglement response tools for responders in multiple countries.

The team also contributed to the effort to reduce entanglements through its participation in the Atlantic Large Whale Take Reduction Team. Entanglement in fishing gear is now understood to be the leading cause of death and injury to the endangered and declining North Atlantic right whale. Significantly reducing that impact is absolutely necessary, but also highly complex. In the coming months the team will be discussing all options as the crisis facing right whales deepens.



[Scan to read leatherback sea turtle entanglement study.](#)

## New Fin and Sei Whale Research

The Department of Population Biology launched a new project in 2022 as part of its long-term research on individual fin whales. The project is a collaboration with the Northeast Fisheries Science Center and includes placing small LIMPET tags close to the dorsal fin on the back of individual whales to track them over time. This summer tags were placed on eight fin whales, including some we have known for decades. Data from these devices allow us to better understand how fin whales behave under water as well as their movements within and between areas. One of this year's tags transmitted for 96 days, providing a new window into fin whale behavior. Next year we will expand the study to include sei whales, which are sporadic visitors to coastal Gulf of Maine waters.



# Whale Research & Response

## MET Plate Program Awards \$229,205 for CCS Whale & Turtle Programs

This year, the state's Massachusetts Environmental Trust (MET) awarded the CCS Right Whale Ecology Program \$29,205 and the CCS Marine Animal Entanglement Response team \$200,000. The right whale program will use the money to study where the whales feed, which can help with management strategies. The MAER team will use its funding to contribute to the Massachusetts Large Whale and Sea Turtle Conservation Program. The funds come from the sale of MET's specialty license plate program. In total, the MET awarded \$495,321 in grants to 11 programs. Massachusetts drivers with an MET plate help to protect the environment. Please visit [whaleplate.org](http://whaleplate.org) to participate.



## Humpback Whale Research Update

The Humpback Whale Studies Program worked on a wide range of research projects in 2022. We continued our collaboration with geneticists at the University of Groningen (The Netherlands) to understand humpback whale population structure in the North Atlantic, relationships among individuals in the Gulf of Maine, and the identity of humpback whales involved in a multi-year Unusual Mortality Event. Our work with the Stellwagen Bank National Marine Sanctuary is providing insight into the influence of life history and demographics on behavior, new tools to dynamically manage humpback whale risk from human impacts, and the effects of prey availability on humpback whale habitat use and reproduction. Our on-going collaboration with the Northeast Fisheries Science Center is improving understanding of long-term trends in population size in the Gulf of Maine and the effectiveness of management efforts to reduce entanglement. A final highlight among the many remaining projects is our work with Whale and Dolphin Conservation, and other partners, to increase diversity and inclusivity in marine mammal science.

*CCS continues its on-going study of humpback whales in the Gulf of Maine.*



# Whale Research & Response



## Right Whale Ecology Program Update

The first North Atlantic right whale of the season was spotted in Cape Cod Bay in the final days of December 2021 and kicked off a new survey year for the Right Whale Ecology Program. In the ensuing months the majority of these critically endangered whales, estimated to be only 340 animals, visited the Bay and area waters as part of their annual migration. Over the winter, observers in the calving grounds of the southeastern United States counted 15 new right whale calves and their mothers. By mid-March some of these mom and calf pairs started arriving in our local waters. Although protected from hunting, the right whale population still suffers heavy losses from entanglements in fishing gear and from ship strikes. Each new calf represents the hope that this struggling species might recover.

During its field season, the Right Whale Ecology Program functioned in two ways: on the water and in the air. A team aboard our vessel *Shearwater* collected zooplankton samples to study the right whale diet and document the whales they spotted. In the air, observers photographed and identified individual right whales. This year, the team identified 273 right whales (81 percent of the population) and 10 mother and calf pairs. On three occasions in April, the aerial team also observed Snow Cone, an actively entangled right whale.

The team's field season ended in May when the aerial team determined that all the North Atlantic right whales had left Cape Cod Bay.

This year, the Center participated in five screenings of the documentary film "Last of the Right Whales" which featured stunning footage of right whales in Cape Cod Bay and the CCS Right Whale Ecology Program team at work. The screenings included discussions with representatives from CCS, OCEANA, the International Fund for Animal Welfare (IFAW) and Whale and Dolphin Conservation.

## Baleen Offers a Roadmap to Right Whale Migration Patterns

With an estimated population of 340 individuals, the North Atlantic right whale (*Eubalaena glacialis*) is one of the rarest large mammals on Earth and is listed as critically endangered. To understand more about their migratory patterns, which could improve protection strategies, CCS's Agnes Mittermayr, Ph.D, was awarded funding to conduct an in-depth study of comparative stable isotope ratios of right whale baleen.

We really are what we eat, down to the nucleus of our cells, and so are whales. Baleen grows like hair, only faster, about one inch per month. When whales create baleen, various molecules are put together to form keratin. These molecules use carbon, nitrogen, oxygen and sulfur as building blocks which are taken up with the food. As baleen grows and whales migrate to various locations, their food sources, and thus the building blocks, change on a subatomic level. For example, isotopic nitrogen ratios change depending on how close to shore a whale is feeding. Oxygen and carbon change by latitude. Sulfur tells us about the material that major rivers deposit into the ocean. The baleen of migrating whales reflects their feeding grounds, like credit card statements reflect your favorite restaurants. Collecting samples along the growth line of baleen means we get a dataset on where they have been for months or even years.

This year CCS staff members Christy Hudak and Agnes were given access to the Smithsonian Institution's collection of large marine mammals, and sampled the baleen of seven right whales. By looking at the differences in the four elements - their concentration, chemical and subatomic properties - and comparing them with entries in the North Atlantic Right Whale catalog and plankton samples, we hope to learn more about the different feeding grounds of right whales. The project's team includes Stormy Mayo, Ph.D., Bryan Legare, Hudak, and Mittermayr.



# Seal & Shark Research



Photo taken by CCS Seal Program under NOAA Permit #17670.

## Exploring the Intersection of Seals, Humans and Ecology

The CCS Seal Research Program and the Marine Fisheries Research Program began the year by working on an outreach plan for the study, *Human Dimensions of Rebounding Populations of Seals and White Sharks on Cape Cod, MA*. This study's goal was to understand and document the attitudes of residents, visitors and commercial fishermen on Cape Cod. This collaborative project, funded by Woods Hole Sea Grant, was led by Dr. Jennifer Jackman from Salem State University. Other partners, in addition to CCS, included researchers from Center for Animals and Public Policy, Cummings School of Veterinary Medicine at Tufts University; School for the Environment, University of Massachusetts, Boston; Northwest Atlantic Seal Research Consortium; Cape Cod Commercial Fishermen's Alliance; and the Atlantic White Shark Conservancy. Scan the QR code (right) to read the report.

The seal program also began work with CCS ecologist Agnes Mittermayr, Ph.D., to investigate how recovering populations of marine vertebrates like gray seals (*Halichoerus grypus*) might represent a new, as yet unstudied, source of nitrogen. We are analyzing eelgrass and other submerged aquatic vegetation from Provincetown Harbor to compare spatial patterns in a variety of nitrogen sources and their incorporation by eelgrass.

In collaboration with the Northeast Fisheries Science Center (NEFSC) and IFAW, the seal program recently began an effort to quantify and characterize live entanglement in gray seals. Our goal is to use aerial drone photography at multiple sites during a single tide and specific time frame to improve the number of seal entanglements at southeastern Massachusetts haul outs.

Finally, the seal program will be wrapping up the field season of boat-based surveys in Cape Cod Bay and observations at the CCS Wave Station in Truro in early December when gray seals move on to breeding colonies around the Northwest Atlantic. This is our third year at the Wave Station, where we are documenting the behavior of gray seals in the near-shore environment.

[Scan to read seal study.](#)



## New Shark Ecology Program Expands Its Range

The Shark Ecology Program, which was established last year, made strides in its first season as manager Bryan Legare continued his work in fine-scale acoustic tracking of great white sharks (*Carcharodon carcharias*) in shallow water. This year he expanded his study area from Head of the Meadow and Nauset Beach to also include placing acoustic receivers at the Outer Cape beaches Herring Cove, Marconi Beach and Newcomb Hollow.

These receivers record an acoustic signal of a previously tagged white shark as it swims through the area and the signals generate unique tracks for each individual shark's movements. Those tracks are then paired with images created by the Center's Seafloor Mapping Program, and also compared with oceanographic conditions such as currents, tides, wave state and turbidity. This three dimensional view of both the location and behavior patterns of white sharks in shallow water allows us to understand how both great whites and humans can share this space.

In addition to tracking white sharks, the program deployed a series of baited underwater video cameras to conduct a nearshore survey of fishes and conditions within the acoustic arrays and habitats of the Outer Cape. These cameras were set on the seafloor and monitored the life in the nearshore surf zone.

In May, Bryan traveled to the British Virgin Islands to work with partner NGO Beyond the Reef to start a collaborative pilot program on shark populations in the territory. Bryan and the team from Beyond the Reef were able to tag 26 young of the year lemon sharks (*Negaprion brevirostris*) in two nursery areas. The BVI collaboration will help the CCS shark program understand how lemon sharks use their habitat, information that will inform us on similar questions about great white sharks.



Bryan Legare working with a young of the year lemon shark in the British Virgin Islands.



# Water Quality Monitoring Program



*Friends of Bass River group photo.*



*Water sampling volunteers Nick Picariello and Barbara Brennessel.*



*Troy Wood, Water Quality Monitoring Program research assistant, processing samples in the lab.*



*Long time volunteer Jan Spence water sampling in Plymouth Harbor.*

How does the Center for Coastal Studies Water Quality Monitoring Program collect over 2,000 samples from 121 stations across Cape Cod Bay and Nantucket Sound every year? Collaboration! This program has an incredible network of dedicated partners and citizen scientists that brave all types of weather and follow the tides year-round to collect in-situ dissolved oxygen, temperature, salinity, pH measurements and samples that are analyzed for chlorophyll, turbidity, and nutrients.

The CCS Water Quality Monitoring Program's citizen scientist initiative began in 2006. It has grown over the years, and today consists of volunteers that collect samples every week from May to October at 20 different stations from Plymouth to Provincetown. Our volunteers collected over 300 samples in 2022 alone! In addition, a team of two - Nick Picariello and Barbara Brennessel - has been taking staff out in their vessel in Wellfleet Harbor since 2018 where they collect 150 samples each year.

In 2020 the Center partnered with the Friends of Bass River to support the creation of their own citizen scientist program to sample seven stations along the Bass River. Waquoit Bay National Estuarine Research Reserve's Baywatchers volunteer program is another valuable partner, collecting samples at 10 stations in Falmouth. Barnstable Clean Water Coalition has been generously donating the use of their vessel and staff since 2014 to collect samples at five stations in the Three Bays estuary system in Osterville. Every season the Harwich Harbormaster's office collects samples at four locations in Harwich. In Popponesset, Nicole Corbett and her team have been monitoring three locations year-round since 2019.

The data collected by these programs are extremely valuable in monitoring and protecting our coastal waters and we could not do it without the help of these groups. The CCS Water Quality Monitoring Program has been tracking changes in Cape Cod Bay since 2000 and in Nantucket Sound since 2010. Check out <http://www.capecodbay-monitor.org> to see the results of the many years of collaborations.



# Marine Debris & Plastics



*Top, Beach Brigade volunteers during a beach clean up on the Martin Luther King Day weekend. Above left, CCS marine debris & plastics assistant Kathryn Brooks. Above middle, Fiona Skeggs, Northwestern journalism student. Above right: Marine debris artist Cindy Pease Roe (middle) with members of the Cape Cod National Seashore and CCS.*

In 2022 the Marine Debris and Plastics Program grew to add both personnel and new initiatives to its roster. With enough NOAA Marine Debris funding to add an assistant position, Kathryn Brooks joined the team in January with the goal of expanding the program. Throughout the year, with the support of the Diana H. Potter Marine Debris internship, S. Emsaki provided an art and outreach role for the program and also reported monthly to the NOAA Marine Debris Monitoring and Assessment Program with data from surveys taken at area beaches.

This past winter Laura Ludwig, program manager, began assisting the US Army Corps of Engineers and New England Region EPA in their efforts to understand why pieces of yellow explosive shock tubing have been washing up on Cape Cod beaches. Thousands of pieces of the tubing, used in a Boston Harbor channel deepening project, escaped their containment system, and data provided by Ludwig's research may assist with improving containment in future blasting projects.

In April, the program welcomed graduate environmental journalism student Fiona Skeggs who embedded in the CCS Ghost Gear Removal Project for three weeks as part of her studies at Northwestern University. The Ghost Gear effort, undertaken with Owen Nichols, CCS Marine Fisheries Research scientist, and local lobstermen, removes abandoned, lost or discarded fishing gear from Cape Cod Bay. This year the team removed just over nine tons of rope, lobster traps, net and cable from the bottom of the ocean, all of which were repurposed, recycled or incinerated.

In August, an independent art review panel convened by CCS and the Cape Cod National Seashore reviewed a dozen applications for a federally funded public marine debris art project. The group selected Cindy Pease Roe's proposal and the Park Service will install her engaging artwork at Herring Cove in 2023.

During September, Laura attended the 7th International Marine Debris Conference in Busan, South Korea. A pioneer in this field, Laura presented on her derelict fishing gear recovery efforts and the program's shoreline cleanup data.

Throughout the year, the program provided data to the NOAA Marine Debris Monitoring and Assessment Program based on monthly surveys at Race Point and Ryder Beach in Provincetown.



# Marine Education & Outreach

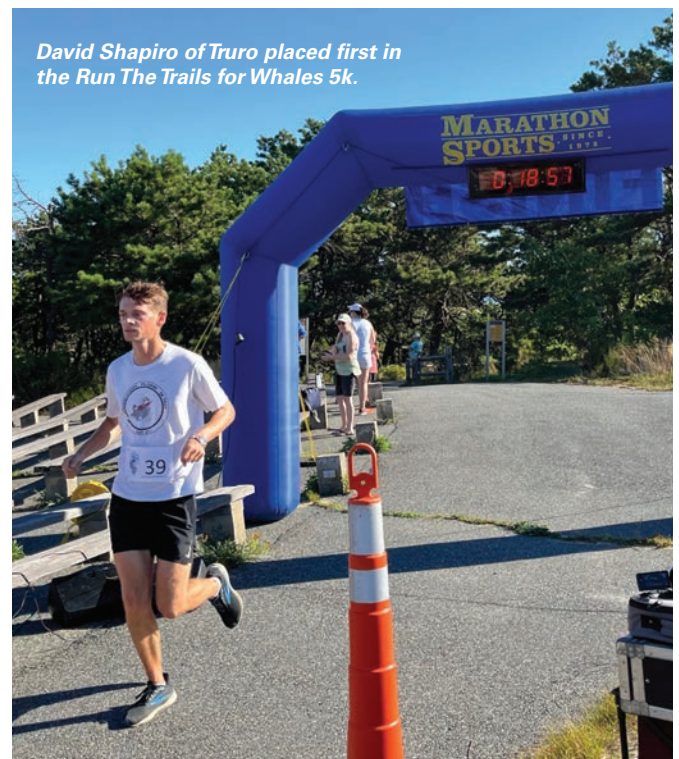
After two years of COVID-related restrictions and interruptions, the CCS Marine Education Program was back in full swing by the spring of 2022 when our Cape Cod partner schools welcomed us into their classrooms. The program brought both classroom and field programs to over 400 students at five local schools, which introduced fifth grade students to the importance of water quality and the marine world on Cape Cod. Those students can then expand their knowledge, working within the frameworks of the Massachusetts State Curriculum Standards, and continue the program in grades six and seven. The water quality program, which is a part of the school curriculum, is now in its 13th year and has taught nearly a generation of Cape students about the vitality and significance of our marine environment. The Marine Education Program also added a curriculum-based offering on the Geology Program's Storm-Tide Pathways Project, including Martha's Vineyard for the first time. In the past year, the education program also welcomed back several out-of-state school groups where students came to learn about the Center's work and participate in beach clean ups as part of their community service efforts.



*A father shows his son how to look through a refractometer, used to measure salinity, at the Brewster Conservation Days event.*



*Whale Camp participants ended their activities with a whale watch aboard the Dolphin Fleet.*



*David Shapiro of Truro placed first in the Run The Trails for Whales 5k.*

**SEA Space Marine Discovery Center, located at Whaler's Wharf on Provincetown's Commercial Street, opened for its seventh year and welcomed close to 2,000 visitors from around the world. SEA Space offered weekly programs for children during July and August. Whale Week's Run the Trails for Whales 5K was also back in person for the first time since 2019 welcoming nearly 100 runners on the beautiful trails of the Cape Cod National Seashore. The successful beach informational pop-up tent program, now in its third season, continued to educate visitors at local beaches about sharks and seals.**



## CCS Playing a Role In New England's Largest Marsh Restoration

The Herring River in Wellfleet and Truro, MA, has been restricted since the early 1900s. What was once a thriving, 1,000-acre marsh system has now degraded, causing significant water quality issues. The Herring River Restoration Project will replace the current opening to the Herring River with an incremental opening more than eight times bigger, allowing for regular tidal flushing to help the system recover. Once completed, the Herring River Restoration Project will be the largest tidal marsh restoration in New England.

Katie Castagno, Ph.D., new director of the Land-Sea Interaction Program, has been monitoring the sediment dynamics in Wellfleet Harbor in advance of the restoration using state-of-the-art instrumentation to accurately measure how, where, and when sediment moves in the harbor. Since Wellfleet Harbor is home to culturally and economically important shellfish aquaculture, it is imperative to develop a keen understanding of the sediment dynamics in the system before the restoration begins. With construction for the Herring River Restoration Project slated to begin in late 2022, Katie's research will be used to maximize the benefits of the restoration project while monitoring and adjusting for any changes that might impact shellfish in Wellfleet Harbor.



*Katie Castagno, Ph.D.*

The Herring River Restoration Project is an innovative project designed to improve ecosystem health while adjusting and adapting to a changing climate. Katie is excited to continue the legacy of the Land-Sea Interaction Program at this pivotal moment in the earth's history, with timely research into how the climate has changed in the past, how the climate is currently changing, and how we anticipate the climate to impact our coasts in the future.

## Martha's Vineyard Storm Tide Pathways Project Complete

The Seafloor Mapping Program recently completed a two-year coastal resiliency and sea level rise study on Martha's Vineyard. The study concluded that for every one-foot increase in sea water level, about 700 acres of land will become inundated.

With sea levels rising, one of the highest risk areas is low-lying coasts. Since 2014, CCS has been mapping the paths that flowing water will take in low-lying coastal areas as a way to assist a town's first responders, Department of Public Works staff, and others who need to know where and when a storm's flood waters might be flowing on a street-by-street basis. The mapping of storm tide pathways is one method that can also be used to plan for sea level rise.

The Vineyard study, funded by the Massachusetts Office of Coastal Zone Management's Coastal Resiliency Grant Program and the Martha's Vineyard Commission, mapped a total of 716 storm tide pathways (or the places where water will begin to flow inland for a given elevation) across the Vineyard.

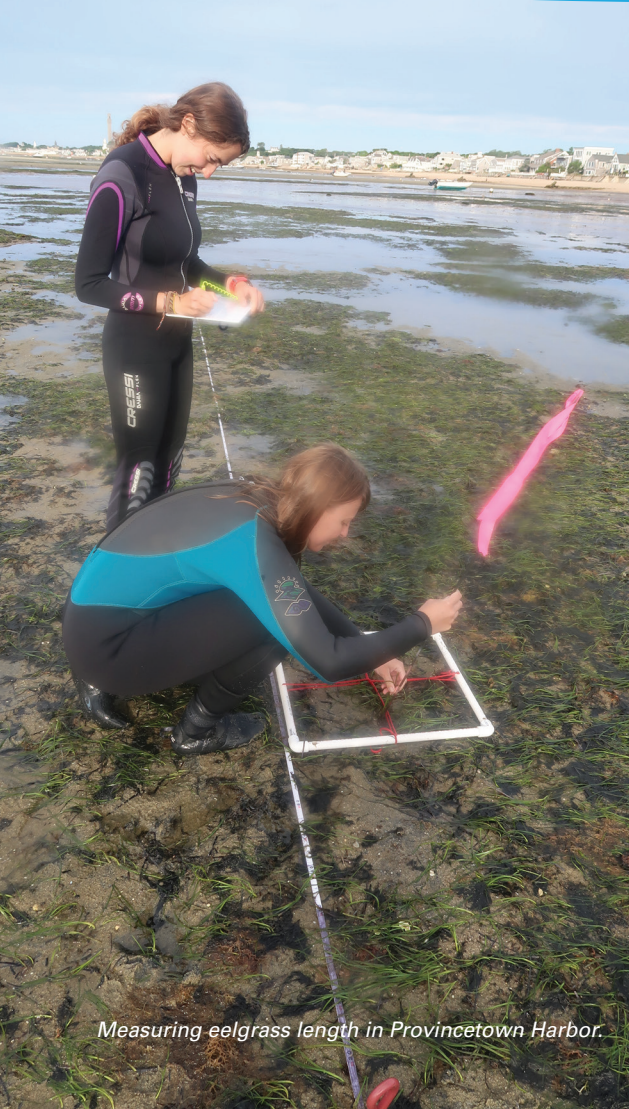
The study, entitled "Mapping Storm Tide Pathways in the Six Towns of Martha's Vineyard: Assessing Coastal Resiliency to Storms and Sea Level Rise," found for every six-inch increase in water level about 350 acres of land are impacted and a one-foot rise would permanently inundate approximately 700 acres.

The study also included a 'low-lying roads' assessment for Martha's Vineyard and found that: a total of 36 current roads island-wide will have at least one foot of water during Nuisance Flooding (the lowest flooding category from the National Weather Service); Minor Flooding would impact 68 roads; Moderate Flooding would affect 87 roads; and Major Flooding would impact 91 roads.



*Mark Borrelli, Ph.D., director of the Seafloor Mapping Program*





Measuring eelgrass length in Provincetown Harbor.



Katie Castagno in Wellfleet Harbor.

## CGRASS Participates In Regional Coastal Resiliency Project

In September, the towns of Wellfleet and Brewster received two coastal resiliency grants from the Massachusetts Office of Coastal Zone Management. The Center's Coastal Geographic and Applied Sciences (CGRASS) program will help Provincetown, Truro, Wellfleet and Eastham continue the third phase of the project to develop an intermunicipal shoreline management effort between the four towns. Due to the success of this previous work on the outer Cape, the CGRASS program will also help the Town of Brewster lead a new intermunicipal shoreline management effort between the towns of Orleans, Brewster, and Dennis. Both projects seek to plan for and manage those town's eastern Cape Cod Bay shorelines. The Center will co-lead efforts with project partners to develop proposal tasks and offer its decades of experience in conducting scientific studies on Cape Cod and elsewhere to help develop more science-based shoreline management practices.

## Provincetown Eelgrass Study Examines Stressors

Eelgrass (*Zostera marina*) provides an array of important services to the ecosystem - global carbon sequestrations, improved water quality and clarity, shoreline protection, sediment stabilization and habitat, as well as shelter and food for many marine organisms. Over the past 25 years, eelgrass in Cape Cod Bay has drastically declined, with documented losses of over 3,500 acres, accounting for more than 60 percent of the overall losses in Massachusetts.

The cause for this extensive loss is likely related to increased coastal development, nutrient-loading, warming waters, the introduction of invasive species and sediment destabilization. However, most eelgrass present in the northeast today recovered from a wasting disease in the 1930s which nearly eliminated it.

To study current stressors and learn how to aid and manage eelgrass on its way to recovery, Agnes Mittermayr, Ph.D., a marine ecologist with the Marine Geology Program, received donor funding to establish an eelgrass monitoring site in Provincetown Harbor. The site is part of the global SeagrassNet program ([www.seagrass.net](http://www.seagrass.net)), which compiles data on density, extent and health of seagrass beds.

In the first of what will be many annual monitoring weeks, Agnes and her team of 10 volunteers caught the low tides of early August to collect data (temperature, pH, salinity, light availability) and samples (eelgrass and sediment) and take underwater photographs. While the water was cool, spirits were high and field work wrapped up in three days. Lab work to determine biomass and grain size followed and Agnes created an eelgrass herbarium, which will be submitted to the Smithsonian Institution collection.

Agnes will continue to monitor local eelgrass beds in the years to come and CCS is partnering with the Cape Cod National Seashore to identify factors preventing the recovery of eelgrass from large declines.



# Staff Updates

This winter, we welcomed new Executive Director Sarah Oktay, Ph.D., Amy Jenness, Director of Marketing, Communications and Outreach, and Pedro Guy, a hydrographer and marine technician in the Seafloor Mapping Program. Shortly after Pedro and his family arrived from Brazil they experienced snow for the first time thanks to a nor'easter that left Provincetown without power for days. We're happy to report the Guy family took it in stride.

This spring, Right Whale Ecology Program aerial observer and flight coordinator Amy James gave birth to Evelyn, her beautiful daughter. In the midst of a very busy field season, Ryan Schosberg joined the right whale program as an aerial observer.

In May, Jennifer McFarland joined us as our Kiosk Manager and merchandise guru. And in June we said a fond farewell to Facilities Manager Anika Costa. The care of our buildings is now in the able hands of Interim Facilities Manager Larry Franke. In August, Austrian native Agnes Mittermayr, Ph.D., a marine ecologist in our Marine Geology Department, received her green card.

In October, CCS co-founder Graham Giese, Ph.D., handed the reins of the Marine Geology Department's Land-Sea Interaction Program to Katie Castagno, Ph.D. Graham started the program, which examines the physical forces that change the coast, and said he was excited to see the ways that Katie would expand and deepen our knowledge of coastal processes. In addition, CCS and the International Whaling Commission signed a new memorandum of understanding that included a succession plan for David Mattila. As David eases into retirement, Scott Landry, CCS MAER team director, and Astrid Frisch, an entanglement expert in Mexico, will take over his duties as coordinator of the Global Entanglement Response Network

In December, Kathryn Brooks concludes her NOAA-funded position as Research and Outreach Assistant with the Marine Debris & Plastics Program and we wish her the best of luck in her next venture.

## CCS STAFF, 2022

**Sarah Oktay, Ph.D., Executive Director**

### ADMINISTRATION

Valerie Daniels, Human Resources Manager  
Larry Franke, Interim Facilities Manager  
Amy Jenness, Director of Marketing, Communications and Outreach  
Karen Langfield, Controller  
Cathrine Macort, Director of Administration and Operations  
Jennifer McFarland, Merchandising Coordinator & Kiosk Manager  
Mary Moore, Donor Relations Coordinator  
Sue Nickerson, Development Director  
Kathy Shorr, Development Officer  
Laura Stinson, Development Associate

### MARINE POLICY PROGRAM

Rich Delaney, Senior Advisor & Interim Director

### MARINE EDUCATION

Jesse Mechling, Director

### CAPE COD BAY MONITORING PROGRAM

Amy Costa, Ph.D., Director  
Jennifer Burkhardt, Research Assistant  
Troy Wood, Research Assistant

### HUMPBACK WHALE STUDIES PROGRAM

Jooke Robbins, Ph.D., Director  
Jenn Tackaberry, Research Associate  
Paulette Durazo, Research Assistant  
Emily Kelly, Research Assistant  
Martine Bérubé, Ph.D., Adjunct Scientist  
Per Palsbøll, Ph.D., Adjunct Scientist  
Mason Weinrich, Adjunct Scientist

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Patrick Barger, Research Assistant

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Agnes Mittermayr, Ph.D., Marine Ecologist  
Pedro Guy, Hydrographer/Marine Technician  
Bryan Legare, Doctoral Intern  
Dan Solazzo, Marine Researcher

### COASTAL GEOGRAPHIC RESEARCH AND APPLIED SCIENCES PROGRAM (CGRASS)

Steve Mague, Program Director  
Samantha McFarland, Assistant Program Director

### MARINE FISHERIES RESEARCH PROGRAM

Owen Nichols, Director

### SEAL RESEARCH PROGRAM

Lisa Sette, Manager

### SHARK ECOLOGY RESEARCH PROGRAM

Bryan Legare, Manager

### MARINE DEBRIS AND PLASTICS PROGRAM

Laura Ludwig, Manager  
Kathryn Brooks, Research and Outreach Assistant

### RIGHT WHALE ECOLOGY PROGRAM

Charles "Stormy" Mayo, Ph.D., Director  
Christy Hudak, Associate Scientist  
Amy James, Aerial Observer & Flight Coordinator  
Brigid McKenna, Aerial Observer & Data/Photo Manager  
Ryan Schosberg, Aerial Observer

### MARINE ANIMAL ENTANGLEMENT RESPONSE

Scott Landry, Director  
David Mattila, Coordinator, Global Entanglement Response Network  
Bob Lynch, Rescue Operations Manager  
Paulette Durazo, Rescue Assistant  
Doug Sandilands, Rescue Assistant  
Lisa Sette, Rescue Assistant  
Jennifer Tackaberry, Rescue Assistant

### MARINE OPERATIONS

Ted Lucas, Marine Operations Manager

### ADJUNCT STAFF

Martine Bérubé, Ph.D., Adjunct Scientist  
Robert Brock, Ph.D., Adjunct Scientist  
Salvatore Cerchio, Ph.D., Adjunct Scientist  
Christopher W. Clark, Ph.D., Adjunct Scientist  
Moncrieff Cochran, Ph.D., Adjunct Educator  
Stephen DeVincent, DVM, Adjunct Scientist  
Benjamin Giese, Ph.D., Adjunct Scientist  
Ellen Hines, Ph.D., Adjunct Scientist  
Mattias Johansson, Ph.D., Adjunct Scientist



# Volunteers



The Center for Coastal Studies volunteers are an amazing group with a passion for our mission who are vital to our work. They answer endless questions and sell our merchandise at our kiosk on MacMillan Pier, they collect water samples from all over the Cape on a weekly basis and they cheerfully turn up to help clean beaches in all kinds of weather. Our volunteers give countless hours and we couldn't achieve so much without them. Thank you CCS volunteers!

Erin Aftisse  
Rob Allen  
Lin Allgeier  
Jerry Anathan  
Robert & Valerie Anderson  
Rebecca Arnold  
Jennifer Augur  
Brandan Badal  
Kim Barboe  
Laura Barcos  
Korri Basinger  
Bob Bennett  
Patty Bennett  
Braden Beauregard  
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Marcia Bissell  
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Mary Zarba  
Debi Zilberman



# Fundraising & Development



## CCS Summer and Autumn Gatherings

Over the summer and fall, CCS held seven gatherings for friends and supporters across the Cape in Centerville, Harwich, Orleans, Truro, and Provincetown, as well as on Nantucket and Martha's Vineyard. Altogether over 2,000 people were invited and 200 people attended the events. Each occasion highlighted our new Executive Director Sarah Oktay, Ph.D., and the fine work of the Center's scientists, researchers and educators. The events helped us connect with a broader community to raise awareness of our work and mission and also gave us the opportunity to thank our donors in person for their amazing support.

In October, Homeport 2022, our annual gala, exceeded all expectations in its enthusiasm, goodwill, engagement, and fun for all. The event grossed \$270,000 in revenues from corporate sponsors, the Fund-A-Need auction, the live auction, ticket sales, and gifts in kind. Nearly 200 people attended the event which honored the contributions of CCS founder Graham Giese, Ph.D., and showcased the transition of the Land-Sea Interaction Program to its new leader Katie Castagno, Ph.D. Board member Dan Wolf did a masterful job emceeding both the live and Fund-A-Need auctions with great humor and passion for the mission of the Center.

## Sunset Whale Watches

This summer, Center for Coastal Studies hosted donors, ticketholders and staff on three Sunset Whale Watches on board Dolphin Fleet vessels. All three trips were sold out and the evening cruises featured a wonderful look at humpback whales feeding, sleeping, logging, lobtailing and even a breach or two. While at sea, passengers also saw other baleen whale species, dolphins, and seabirds and came to port aglow in the pink and orange light of spectacular sunsets.

Special thanks to the Dolphin Fleet for donating their trips for these important fundraising Events. They provided expert naturalist commentary and, as always, the crew was friendly and helpful.

The Center's annual Sunset Whale Watches are offered to donors as a benefit of giving and also made available to the public as space allows.

**Did you know?** CCS's long-term research on individual humpback whales helps to educate the whale watching public across New England and in the Bay of Fundy. The Center shares information from its Gulf of Maine Humpback Whale Catalog with many collaborating whale watch companies, including the Dolphin Fleet.

# Spinnaker Society & Legacy Society

## Two New Societies Established to Recognize Donors

This year the CCS Board of Directors established two important societies - **The Mayo-Giese Founders Society** and the **Spinnaker Society**. The Mayo-Giese society, named in honor of CCS founders Barbara Shuler Mayo, Stormy Mayo, and Graham Giese, pays tribute to supporters who have included CCS in their estate planning. The Spinnaker Society recognizes and celebrates donors who make annual gifts of \$2,500 or more. Both societies are critical to the year-to-year, as well as the long-term, success of the Center for Coastal Studies. We are deeply grateful to members of both of these special groups. Thank you!

### Mayo-Giese Founders Society

Richard Allgaier & Janice Coleman  
Sally Collinson  
Mary Beth & Stephen Daniel  
Kerry Elinskas & Jeffrey Snow  
Thomas Fronczak  
Mary Connell & Bonnie Gibson  
Inez Giles  
Mary & Steven Gulrich  
Ann L. & Mary E. Keenan  
Jean Kenyon  
Dr. James Kirk Jr.  
Anne Knowlton MD & Deborah Lamoreux  
Annie LaPensee  
Diane DiCarlo & Jeanne Leszczynski  
Constance Lyman  
Ruth Feldman & Romaine Macomb  
Marie Malo  
Nicholas Athanassiou & Jeanne McNett  
Craig Milan  
Charlotte & Richard Miller  
Betsy Bradshaw & Peggy Moore  
Margaret Murphy  
Nancy Poor  
Bill & Mia Rossiter  
Nancy Scott  
James Sexton  
Stacey Smith  
Barbara Sutherland  
Jeremy Taylor  
John & Nancy Watters  
Janet Young  
Beth Volker

### Spinnaker Society

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Animal Welfare Institute  
Chris & Eleanor Armstrong  
Arthur L. & Elaine V. Johnson Foundation  
Marjorie Austin  
Katharine Bachman & Elizabeth Gawron  
The Ballard Foundation  
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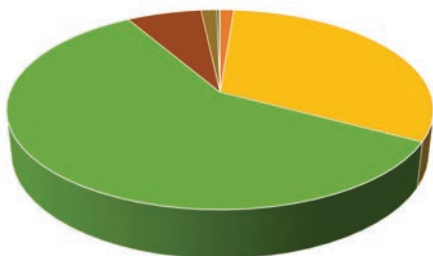
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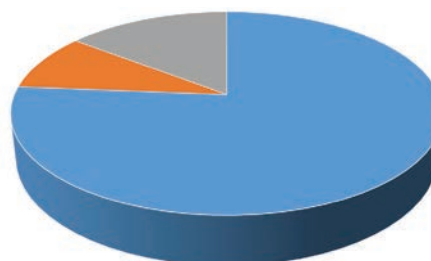
# Financial Report

## FY2021 Source and Use of Funds Summary\*



Revenue 2021

- Membership
- Contributions
- Grants and Contracts
- Events
- Merchandise/Tools
- Other earned income
- Other revenue



Expenses 2021

- Program Services
- General and Administrative
- Fundraising

### REVENUE

	<u>2020</u>	<u>2021</u>
Membership	68,299	64,923
Contributions	1,106,859	1,665,732
Grants & Contracts	3,013,312	3,099,082
Events	255,844	351,910
Merchandise/Tools	58,172	73,883
Other earned income	5,842	12,019
Other revenue	-45,665	3,730
<b>Total</b>	<b>\$4,462,663</b>	<b>\$5,271,279</b>

### EXPENSES

	<u>2020</u>	<u>2021</u>
Program Services	3,396,969	3,689,518
General and Administrative	348,511	441,330
Fundraising	597,563	704,526
<b>Total</b>	<b>\$4,343,043</b>	<b>\$ 4,835,374</b>
-----		
<b>Net</b>	<b>\$119,620</b>	<b>\$435,905</b>

\*This report includes audited financial information for the calendar year 2021. The 2022 audited financial statement will be available on our website in 2023 and included in the 2023 edition of Coastwatch.

# Center for Coastal Studies Donors 2021 & 2022 through Q3

The Center for Coastal Studies would like to thank the following donors for their generous support. All gifts were recorded between January 1, 2021 and September 30, 2022.

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Massachusetts Division of Marine Fisheries  
Massachusetts Environmental Trust  
Massachusetts Office of Coastal Zone Management  
Massachusetts Water Resources Authority  
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National Fish & Wildlife Foundation  
National Marine Sanctuary Foundation  
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Katharine Bachman



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Rich Delaney & Jan Young  
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Melinda Krasting  
Emily Kressley  
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Jenna Maher  
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Stormy Mayo  
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Margot McKlveen  
Jeanne McNett  
Joanna Miller  
Agnes Mittermayr  
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Jaime Sweany  
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Jan Young

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This list includes gifts recorded from January 1, 2021 through September 30, 2022. Our financial report on page 17 reflects our audited income and expenses for the 2021 calendar year. Our 2022 audited financial information will appear on our website and in next year's *Coastwatch* as soon as possible. We have made every effort to ensure that our information is accurate. If you discover an error, please contact us at 508-487-3622 ext. 100.

\*Denotes a donor who passed away during the reporting period.

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