

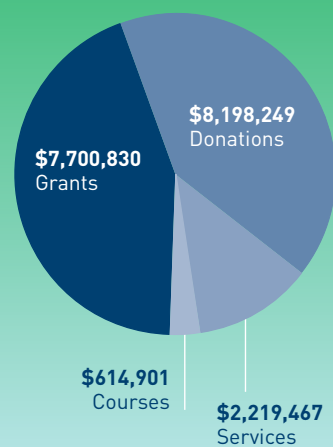
From the surface to the seafloor, from the tropics to the poles, from the tiniest viruses to global processes — Bigelow Laboratory scientists work on systems around the planet to study the foundation of ocean health.

What we're learning builds understanding of some of the greatest challenges society faces, enabling us to unlock the ocean's potential to improve the future for all life on Earth.

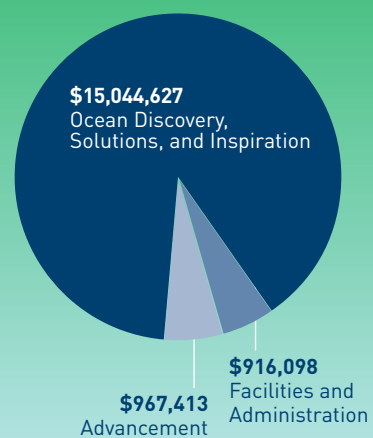
We hope you enjoy this look back at some of the ways our work made a difference last year.

### 2022 FINANCIALS JULY 1, 2021 – JUNE 30, 2022

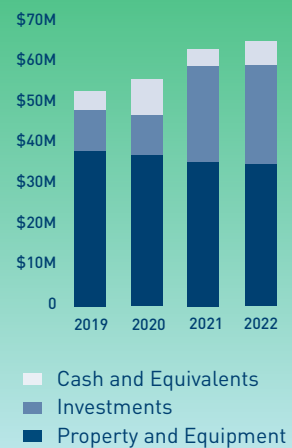
REVENUE **\$18,733,447** Total



EXPENSES **\$16,928,138** Total

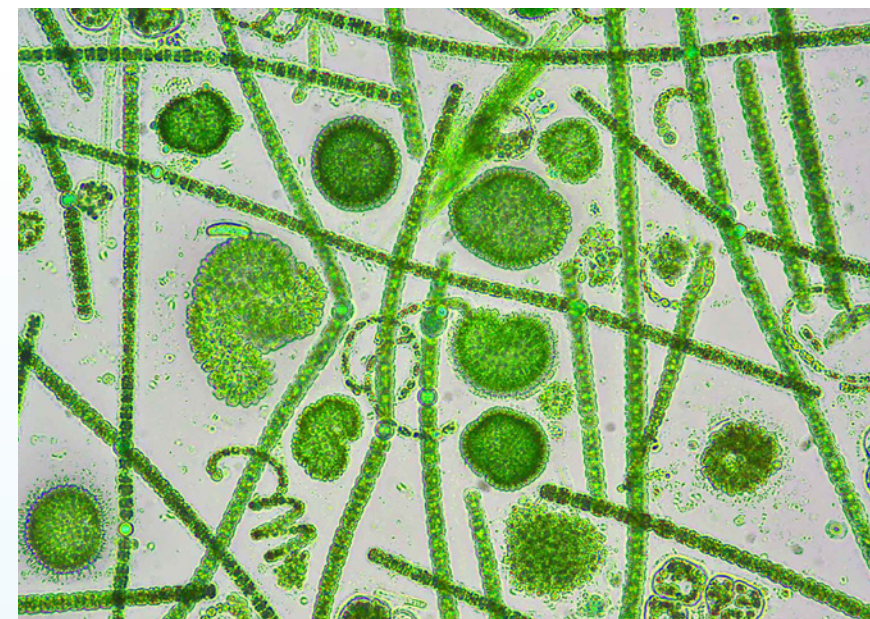


ASSETS 2019 – 2022

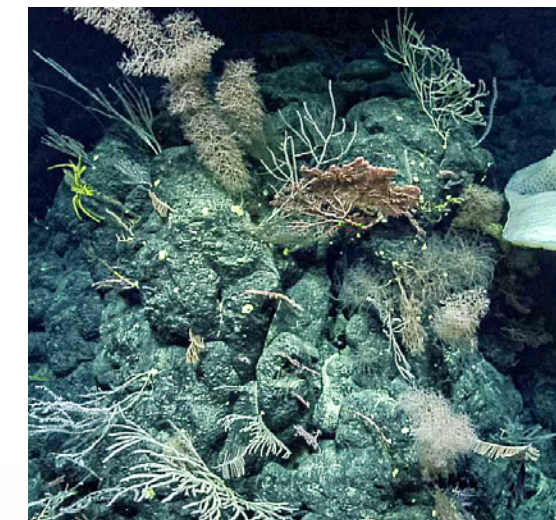


## Ocean Health and Function

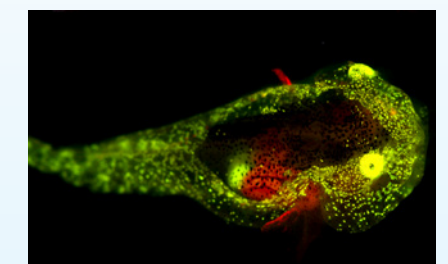
We reveal how the ocean works and how to better care for our planet.



**Harmful algal blooms are increasingly common around the world and pose a serious risk to wildlife, fisheries, and communities.** Bigelow Laboratory scientists continue to be at the forefront of efforts to better understand what causes these blooms and how to minimize their impact while also empowering scientists and government officials to monitor and respond to them. [bigelow.org/2022-habs](https://bigelow.org/2022-habs)



**Deep sea mountains are one of the least-understood parts of the planet.** Our researchers continued their work last year to better understand these environments, which are hubs of vast biological diversity — and potential sources of valuable minerals. This work is a first step to illuminating the consequences of human activity, such as mining, on these complex ecosystems. [bigelow.org/2022-deep-sea](https://bigelow.org/2022-deep-sea)



**Species living in polar environments have developed remarkable adaptations to survive in extreme conditions.** Our scientists recently discovered that the variegated snailfish, the only known biofluorescent polar fish, survives by directing significant resources to produce large amounts of antifreeze in its cells. Understanding these evolutionary strategies provides insight into how these species might adapt in our rapidly changing world. [bigelow.org/2022-polar-fish](https://bigelow.org/2022-polar-fish)



**Although rare, there are forms of cancer that are contagious.** Last year, our researchers found that a type of cancer that affects soft-shell clams could be spread through seawater. Understanding the prevalence of the disease and how it is transmitted is essential for minimizing its spread among this valuable species. [bigelow.org/2022-clam-cancer](https://bigelow.org/2022-clam-cancer)

# Our Changing Planet

We focus on key species to predict, combat, and adapt to climate change.



**The Arctic is one of the most vulnerable places to climate change in the world.** As part of the largest-ever Arctic research expedition, our scientists are providing new insights into how the atmosphere, water, and ice interact in this dynamic region. Their efforts set the groundwork for years of research to come on the complex workings and future of the Arctic. [bigelow.org/2022-arctic-future](https://bigelow.org/2022-arctic-future)

**Changes in ocean circulation are driving warm, salty water into the Gulf of Maine.** Last year, our researchers analyzed two decades worth of data to elucidate how the Gulf is changing and how fast it's warming. These changes aren't just altering the foundation of the food web locally, but they can also influence ocean processes well beyond our shores.

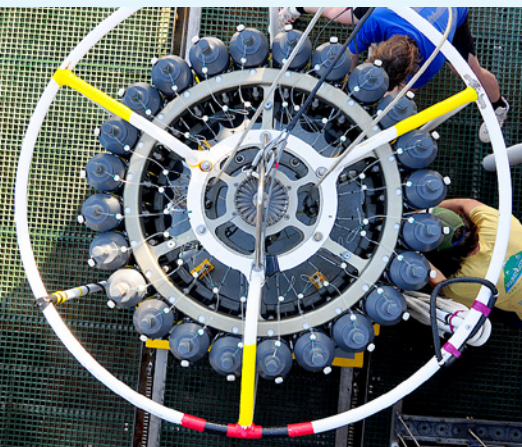
[bigelow.org/2022-gulf-transformation](https://bigelow.org/2022-gulf-transformation)



**The number of young lobsters in the Gulf of Maine has decreased in recent years.** Student-led research last year sought to better understand how well lobsters are surviving, and whether they're getting enough food, at this critical stage of development. Their findings illuminate how changing conditions are impacting the region's food web and this important fishery. [bigelow.org/2022-lost-lobsters](https://bigelow.org/2022-lost-lobsters)



**Climate change is altering fundamental processes in the ocean with negative effects on the microscopic life that drives those processes.** Our scientists published research last year suggesting that the ocean surface ecosystem, and the natural carbon dioxide removal it supports, is more resilient to changing conditions than expected, altering how this process is modeled in future forecasts. [bigelow.org/2022-climate-adaptation](https://bigelow.org/2022-climate-adaptation)



**Carbon storage is an important strategy for reducing greenhouse gases in the atmosphere and combating climate change.** Our planet has already evolved ways to naturally remove carbon dioxide from the atmosphere and store it in the ocean. Bigelow Laboratory scientists are working with researchers from around the world on solutions to amplify those natural processes.

[bigelow.org/2022-carbon-capture](https://bigelow.org/2022-carbon-capture)



**Bigelow Laboratory's National Center for Marine Algae and Microbiota holds one of the world's largest and most diverse collections of algae.** It increased its holdings substantially last year, providing scientists around the globe with access to 1,400 new strains and vast genetic data. This expansion will encourage and enable new research into algae and its applications. [bigelow.org/2022-seaweed-research](https://bigelow.org/2022-seaweed-research)



**New techniques can allow us to better understand how marine organisms control the interactions between the atmosphere and oceans.** Our scientists developed a method for linking the genes and functions of cells, illuminating the relationship between an organism's genetic code and what it does in the environment. Their approach provides unprecedented insight into the role of microbes in ocean carbon cycling. [bigelow.org/2022-carbon-cycling](https://bigelow.org/2022-carbon-cycling)

**Bioinformatics is an emerging field for leveraging vast amounts of data to understand the microbes that shape life at a previously impossible level of detail.** Our scientists are utilizing cutting-edge computational techniques to analyze the genetic data of the millions of single-celled organisms that form the base of ocean food webs. [bigelow.org/2022-data-science](https://bigelow.org/2022-data-science)



# The Ocean's Potential

We develop the tools needed to unlock the opportunity of the ocean.

# GIVING OUR SINCERE THANKS

**Bigelow Laboratory is an independent, nonprofit institute. Our impact is only possible with the help of our community of supporters. Their generosity fuels our discoveries, powers our solutions, and enables us to inspire the next generation of ocean leaders.**

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