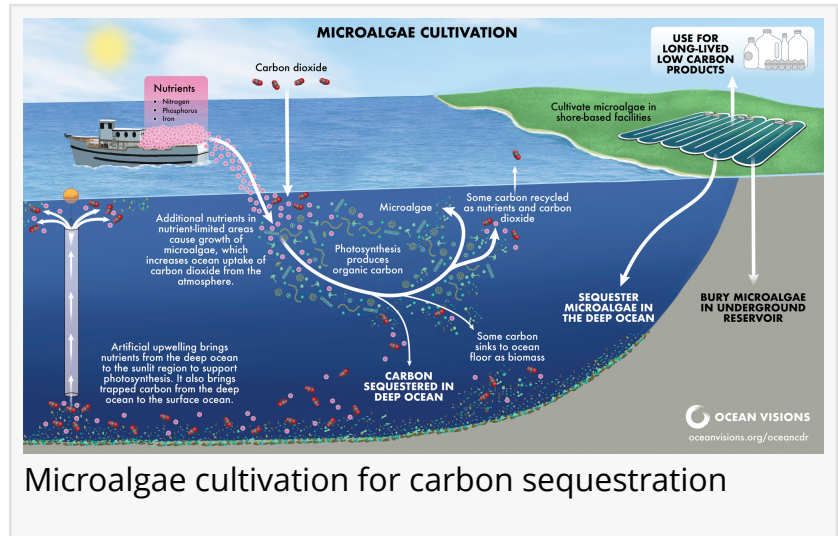


Ocean Visions Creates Road Map to Advance Research and Development for Microalgae-Based Carbon Sequestration

New map is the latest in a series designed to accelerate responsible research and development for ocean-based solutions to the climate crisis.

ATLANTA, GEORGIA, USA, February 22, 2023 /EINPresswire.com/ -- Ocean Visions today released the latest in a series of digital road maps designed to accelerate responsible research and development for ocean-based solutions to the climate crisis.

Representing the sixth in a growing series, the [new road map on microalgae cultivation](#) is intended to catalyze action around the most critical needs to safely advance the field.



Microalgae cultivation for carbon sequestration

Since 2020, Ocean Visions has been working with experts from multiple disciplines, sectors, and geographies to build a suite of road maps for carbon dioxide removal (CDR) strategies that are ocean-based. Numerous workshops helped to identify technology readiness, scaling potential, uncertainties, obstacles, opportunities, and first-order priorities. The road maps are designed to be updated and refined regularly as advances emerge in science, technology, governance, and policy.

“

Removing legacy carbon pollution is critical to a healthy ocean.”

*Ocean Visions Chief Scientist
David Koweek, PhD.*

Microalgae may be able to play an [important role in cleaning up carbon dioxide pollution](#), but much more research—along with associated funding and equitable governance policies—is necessary to better understand its potential and risks.

“Microalgae have been the engine behind ocean carbon cycling for over a billion years,” says Ocean Visions Chief Scientist David Koweek, PhD. “This road map brings together all of the ideas people have for how to accelerate this process. By bringing everything together, we can see

commonalities, opportunities for innovation, and unique challenges behind microalgae-based technologies.”

The microalgae road map provides a focused agenda to advance research and development, allowing scientists, engineers, cultivators, entrepreneurs, investors, philanthropists, and more across the globe to maximize their contributions.

The [latest report from the Intergovernmental Panel on Climate Change](#) (IPCC) makes clear that, even if global emissions are reduced dramatically, the world will still need to find ways to remove existing carbon pollution to avoid the more catastrophic effects of climate change—including existential threats to ocean health.

The effects of the last 170 years of accumulated greenhouse gas emissions are destabilizing the entire ocean system. Elevated greenhouse gases trap an enormous amount of extra heat from the sun, over 90 percent of which has gone into the ocean and contributed to the loss of oxygen. Additionally, approximately 30 percent of all the excess carbon dioxide has been absorbed into the upper layer of the ocean, causing it to become more acidic. Efforts to restore the health of the ocean cannot be resolved without addressing the overlying driver of harm: far too much carbon dioxide and other greenhouse gas pollution in our air and water.

“Removing legacy carbon pollution is critical to a healthy ocean,” Koweek says. “These road maps will help us better understand how we might be able to enhance some of the ocean’s natural carbon-absorbing superpowers in a way that may help us safely restore both the climate and the ocean.”

Support for the microalgae road map comes from Wells Fargo Foundation, ClimateWorks Foundation, Schmidt Marine Technology Partners, Jeremy and Hannelore Grantham Environmental Trust, and Builders Initiative.

ABOUT OCEAN VISIONS

Ocean Visions is a non-profit organization that catalyzes innovation at the intersection of the ocean and climate crises. We facilitate multisector collaborations from within our Network and beyond, working with leading research institutions, the private sector, and public-interest organizations to fully explore and advance responsible and effective ocean-based climate solutions. In short, we work to stabilize the climate and restore ocean health. To learn more, visit www.oceanvisions.org or follow @Ocean_Visions on Twitter.

Jessica Keith
Ocean Visions
jessica@oceanvisions.org
Visit us on social media:
[Twitter](#)

[LinkedIn](#)

This press release can be viewed online at: <https://www.einpresswire.com/article/618414515>

EIN Presswire's priority is source transparency. We do not allow opaque clients, and our editors try to be careful about weeding out false and misleading content. As a user, if you see something we have missed, please do bring it to our attention. Your help is welcome. EIN Presswire, Everyone's Internet News Presswire™, tries to define some of the boundaries that are reasonable in today's world. Please see our Editorial Guidelines for more information.

© 1995-2023 Newsmatics Inc. All Right Reserved.