

Who are we?

OCB is a network of scientists who work across disciplines, such as ocean chemistry, biology and physics, to understand the ocean's role in the global carbon cycle and the response of marine ecosystems and biogeochemical cycles to environmental change. OCB is a bottom-up organization that responds to the continually evolving research priorities and needs of its network.

What do we do?

OCB brings together scientific disciplines and cultivates partnerships with complementary US and international programs to address high-priority research questions in ocean biogeochemistry. OCB plays multiple important support roles for its network:

- Organizes and co-sponsors workshops, short courses, working groups and synthesis activities on emerging research issues
- Serves as a central information hub (websites, email list, newsletter, social media) to broadcast scientific news, opportunities, and research highlights
- Engages with relevant national and international science planning initiatives
- Develops education and outreach activities and products with the goal of promoting ocean carbon science to broader audiences
- Trains the next generation of ocean scientists and engages early career scientists in OCB activities (travel support, networking, mentoring)

What is our impact?

OCB cultivates a continually growing scientific network that fosters interdisciplinary collaborations, informs new projects and funding opportunities, and advances our mechanistic understanding of marine ecosystem-carbon cycle dynamics and their responses to environmental change. OCB activities provide an effective interdisciplinary model and forum for scientific inquiry and discussion.

Contact

www.us-ocb.org

508-289-2838

info@us-ocb.org

✉ [@us_ocb](https://twitter.com/us_ocb)

OCB Project Office
Woods Hole Oceanographic Institution
266 Woods Hole Rd, MS #25
Woods Hole, MA 02543

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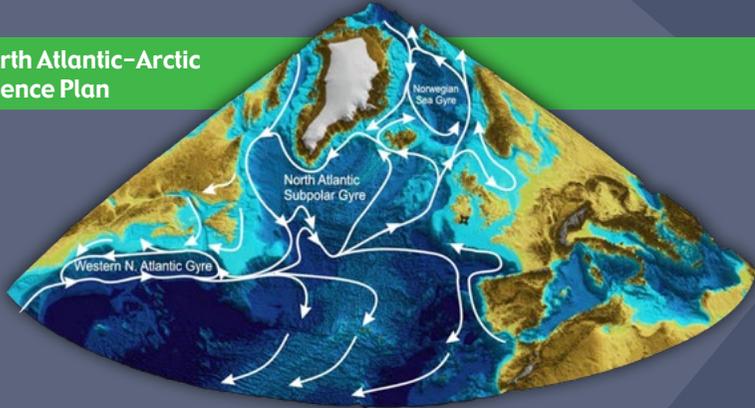
Ocean Carbon & Biogeochemistry

Studying marine ecosystems and biogeochemical cycles in the face of environmental change

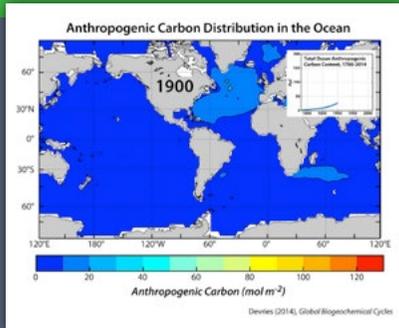


Recent Accomplishments

North Atlantic-Arctic Science Plan



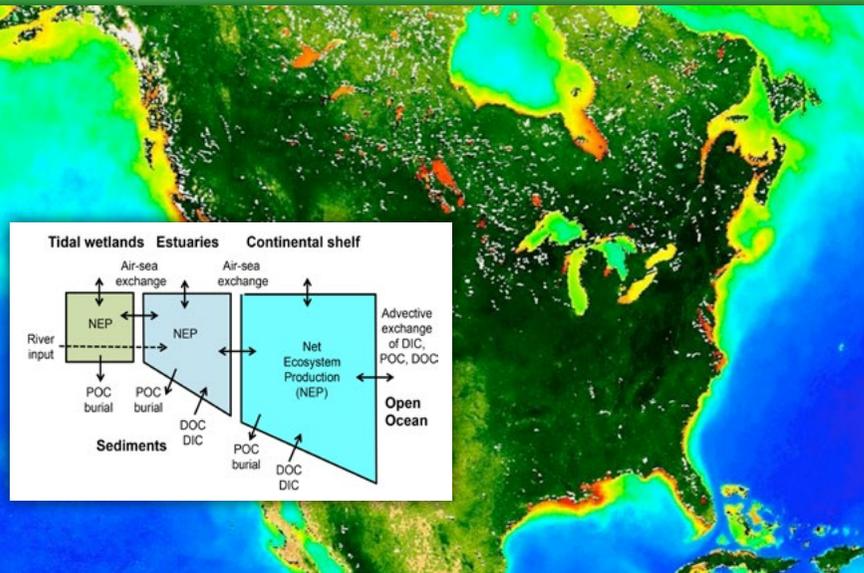
Slide Deck On Anthropogenic Carbon



20 Facts About Ocean Acidification



North American Coastal Carbon Science Plan



OCB Science



Changing Ocean Chemistry

How is the chemistry of the ocean (oxygen, pH, nutrients, etc.) changing, what are the key underlying processes, and what are the implications for humans and marine life?



Ocean Carbon Uptake and Storage

How is the ocean's capacity to absorb carbon changing and what are the key processes underlying ocean carbon uptake and storage?



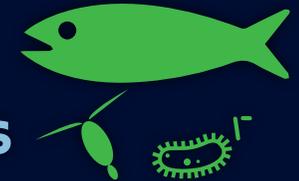
Estuarine and Coastal Carbon Fluxes

How are continental margin systems contributing to regional and global carbon cycles and what are the key processes underlying the cycling and fate of carbon and nutrients in continental margin systems?



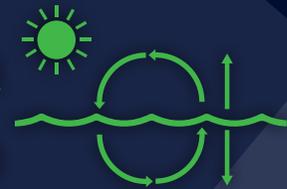
Ocean Observatories

OCB is interested in all forms of ocean monitoring, including shipboard, autonomous, and space-based platforms. The OCB SSC also maintains a dedicated subcommittee focused on ocean time series.



Changing Marine Ecosystems

How do marine ecosystems respond to environmental and evolutionary changes, including both physiological and molecular-level responses of individuals and shifts in community structure and function?



Biological Pump

How do biological, biogeochemical, and physical processes act together to influence the production and fate of organic carbon in the ocean?