

Science Communication Through Art, Design, and Hands-on Activities

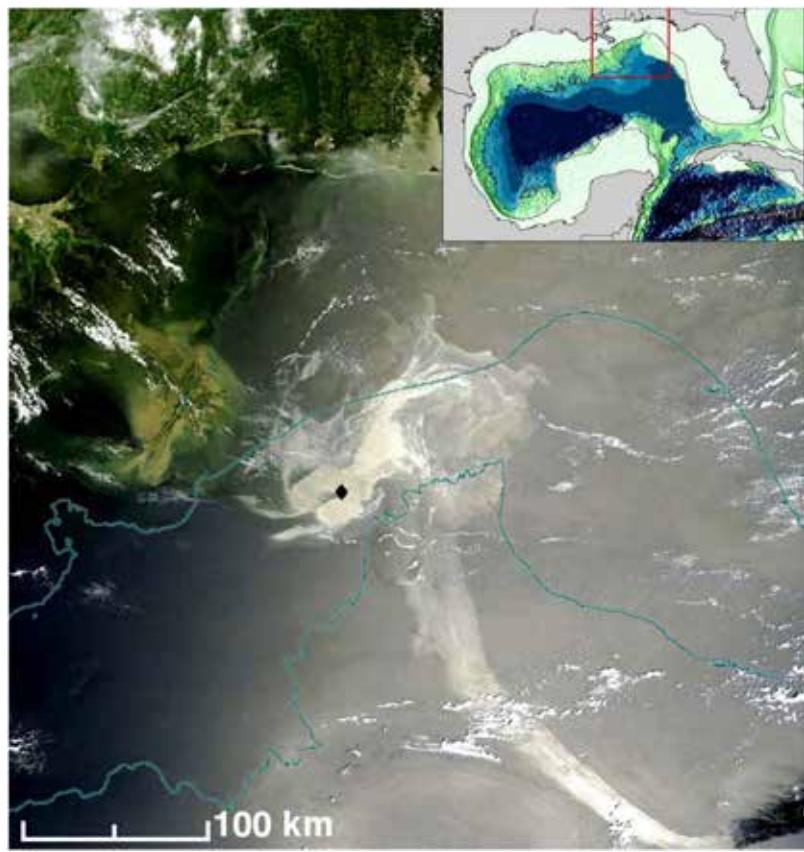
Laura Bracken
University of Miami/CARTHE

CARTHE

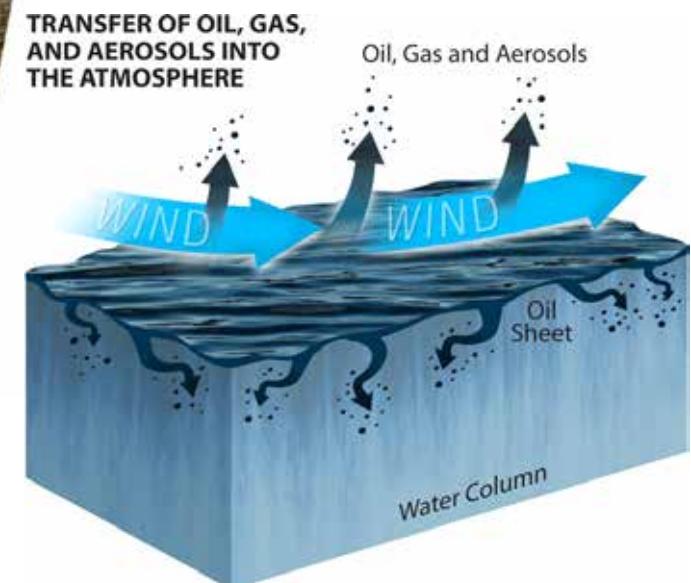
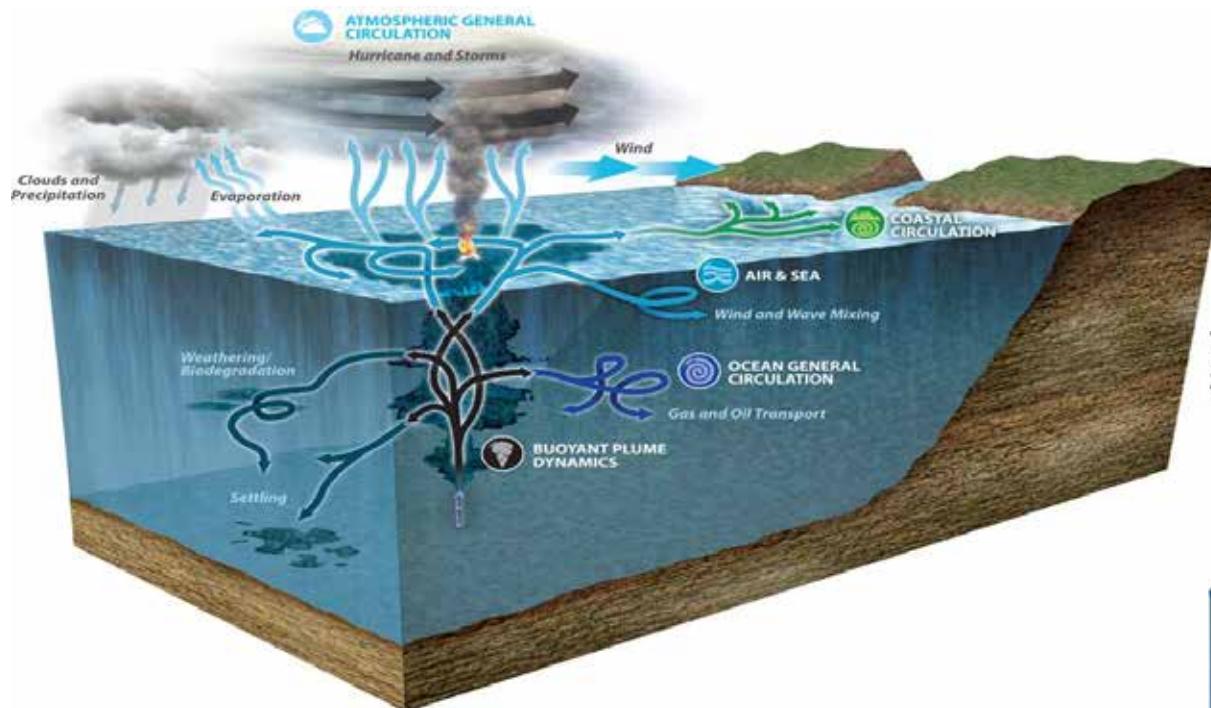
Consortium for Advanced Research on
Transport of Hydrocarbon in the Environment

CARTHE is a research team studying ocean currents and oil transport, so we can guide response teams in the event of a future spill.

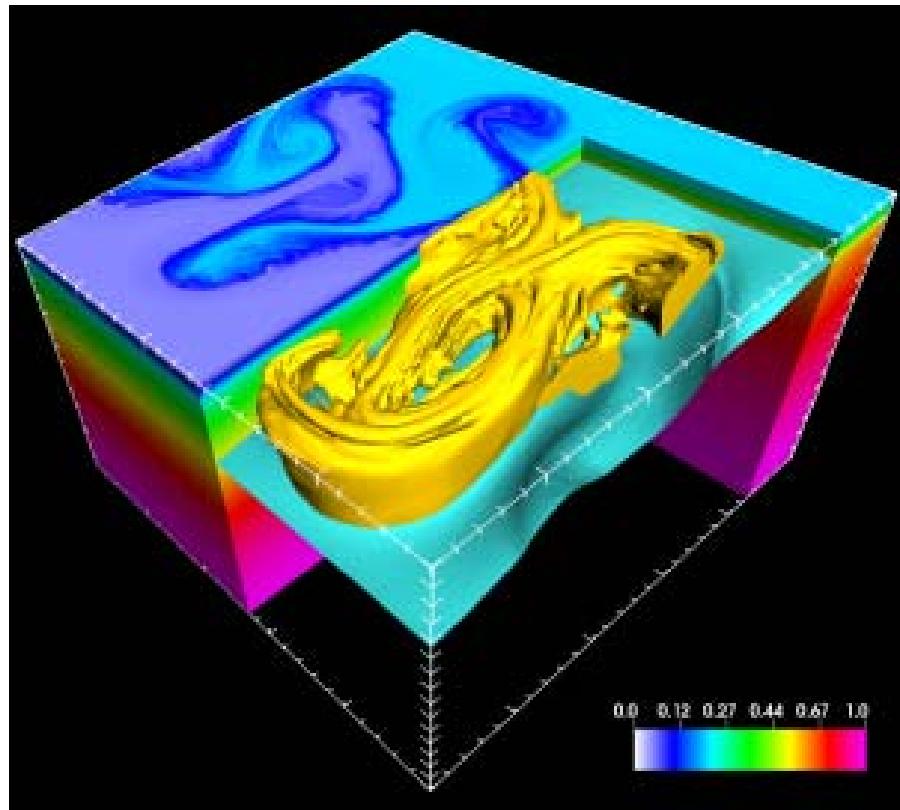
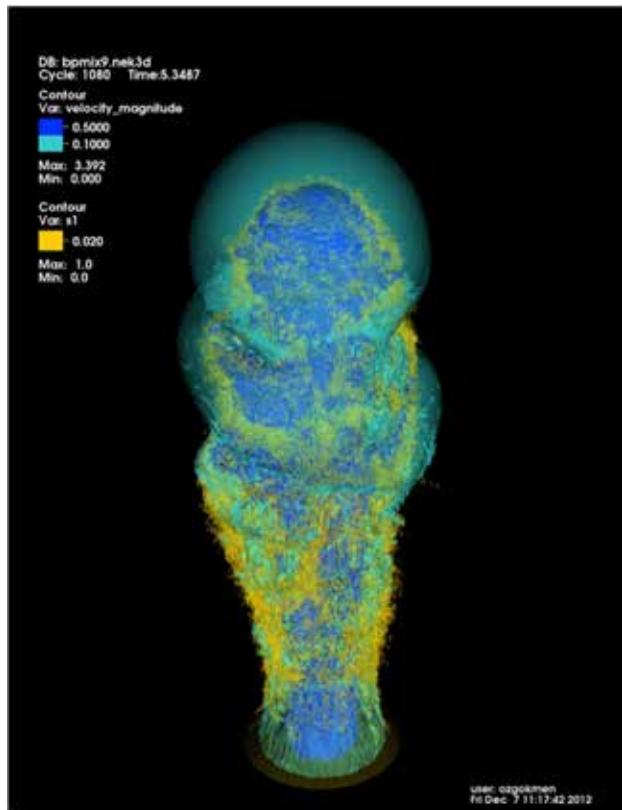




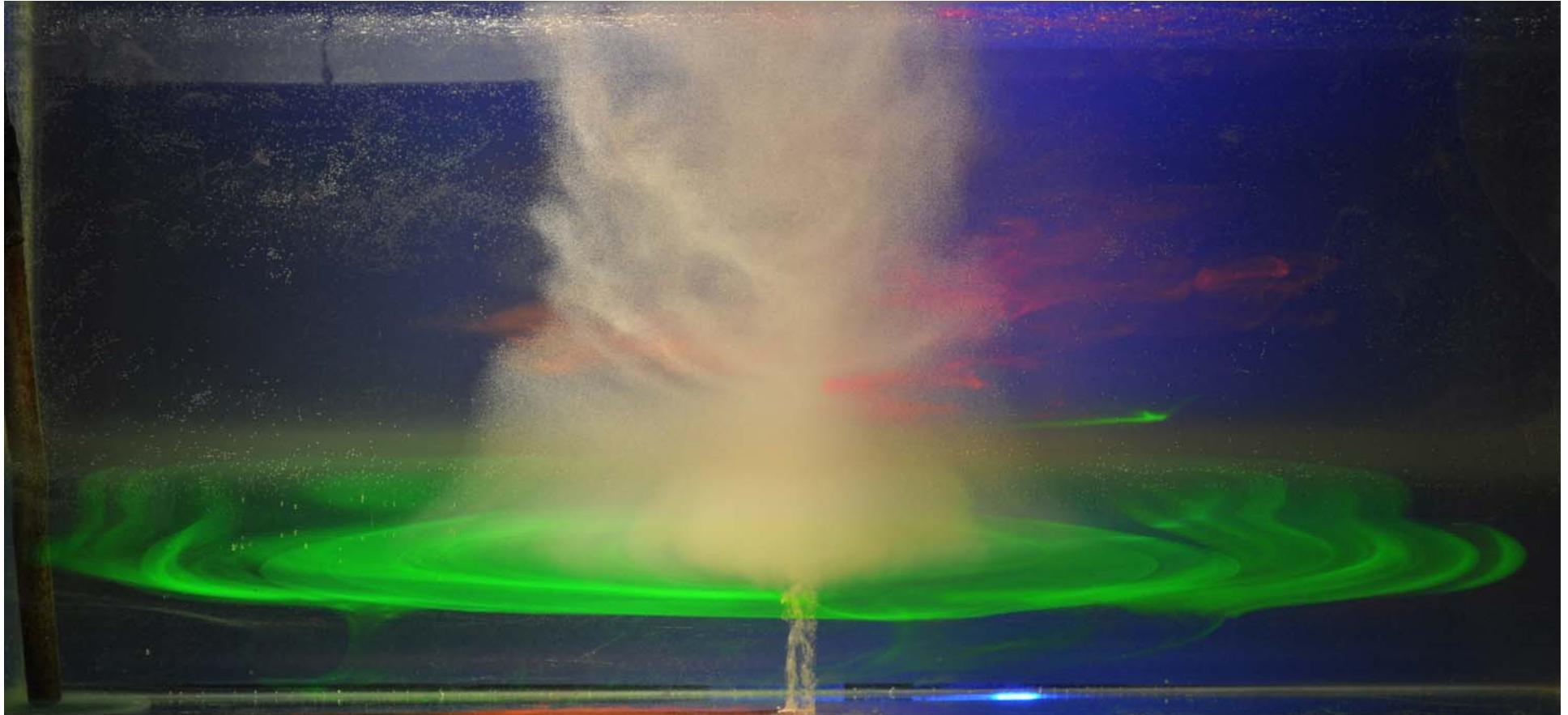
Science Visualization



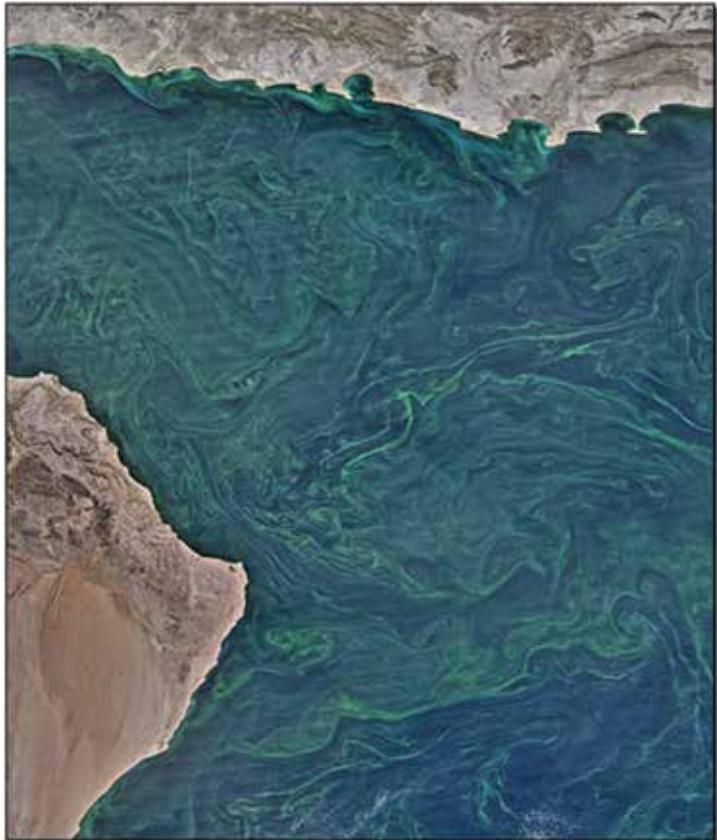
Visual Art



Tamay Ozgokmen



Photograph of a bubble plume in a two-layer stratified environment, University of Cambridge/CARTHE



Arabian Sea dinoflagellate bloom, NASA



Deepwater Horizon Langmuir Cells

Videos

Over 200,000+ views



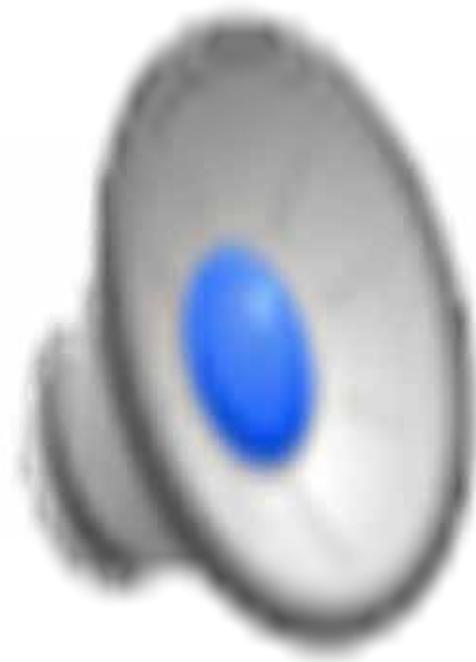
Drifting in the Gulf - A Science Story

A screenshot of a Facebook video player. The video shows a person in a yellow waterproof suit standing on a boat, holding a white circular device and pointing it towards the water. The video player includes standard controls like play, pause, and volume. Below the video, there is a caption and some text about the video's source and purpose.

Waterlust is with Gulf of Mexico Research Initiative and 2 others.

Ever wonder how water moves in the ocean? CARTHE scientists from around the world work together to measure ocean currents. The data they collect are driving the evolution of ocean circulation computer models, allowing researchers to predict where water will move in the future! Learn more at www.carthe.org.

36K Views



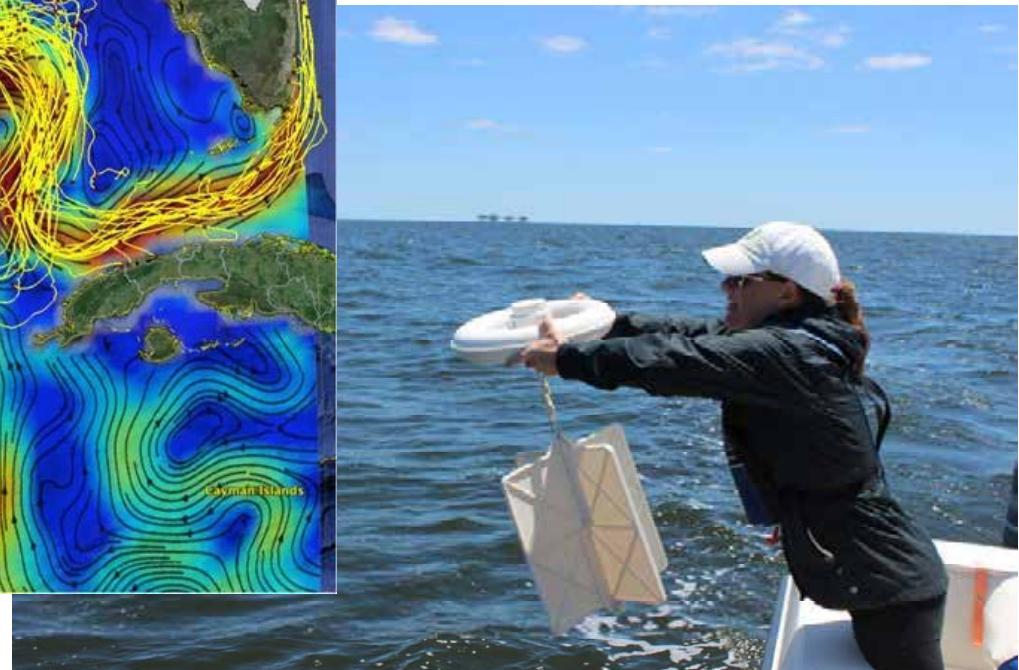
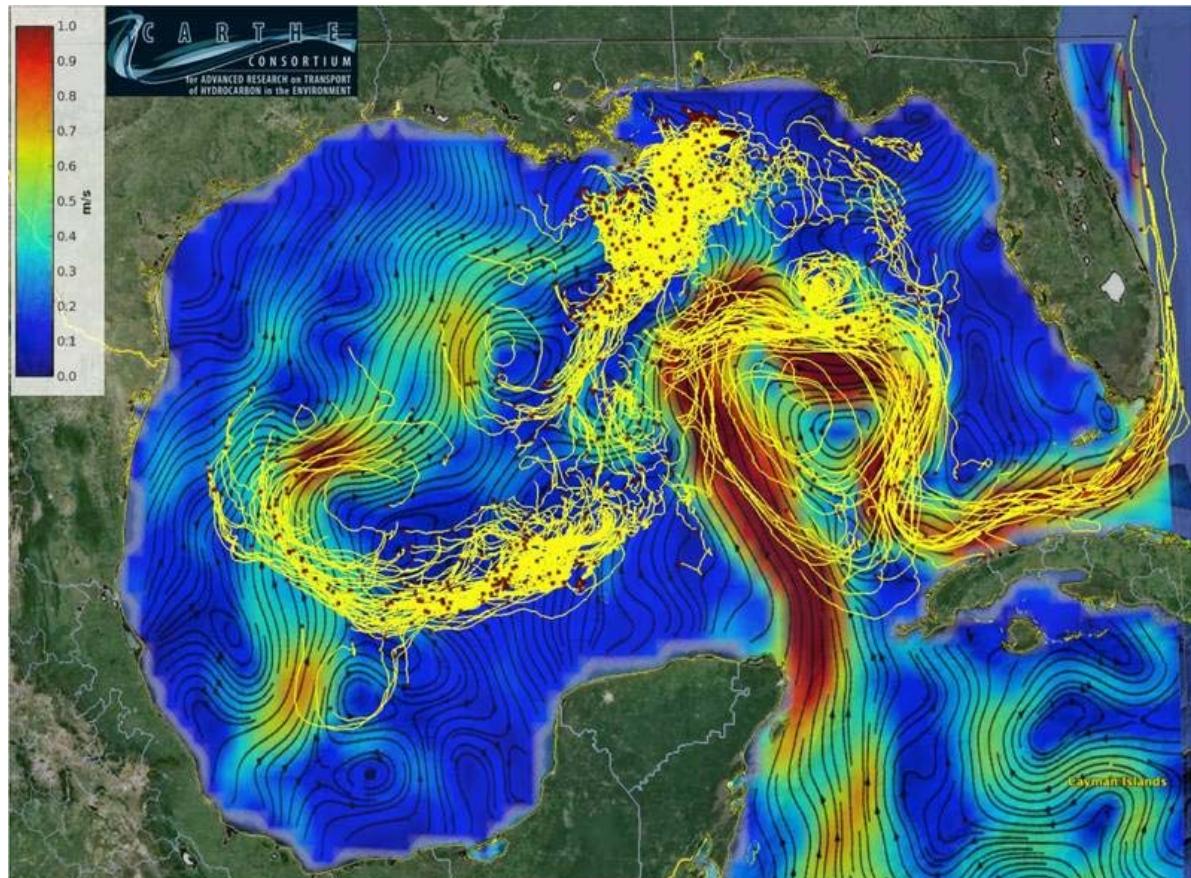
1st Place Ocean 180 Video Challenge

The image shows the homepage of the Ocean 180 Video Challenge website. The header features the "Ocean 180 Video Challenge" logo, a search bar, and social media links for Facebook and Twitter. Below the header, a navigation menu includes "ABOUT OCEAN 180", "FOR SCIENTISTS", "FOR TEACHERS AND STUDENTS", "2015 CHALLENGE" (which is highlighted in blue), and "PAST CHALLENGES". A large banner image on the left displays a close-up of a green, textured marine organism, possibly a coral or sponge. Overlaid on this image is a yellow box containing the text: "OVER 37,000 STUDENTS SUBMIT VOTES" and "Middle school judges in 336 schools across 21 different countries helped select the winners of the 2015 Ocean 180 Video Challenge." To the right of the banner is a photograph of a diverse group of approximately 15 people, including scientists and students, standing together outdoors on a boat deck. Some individuals are holding scientific equipment like cameras and a white A-frame structure.

Drifter Design



Drifter Design



Drifter Design

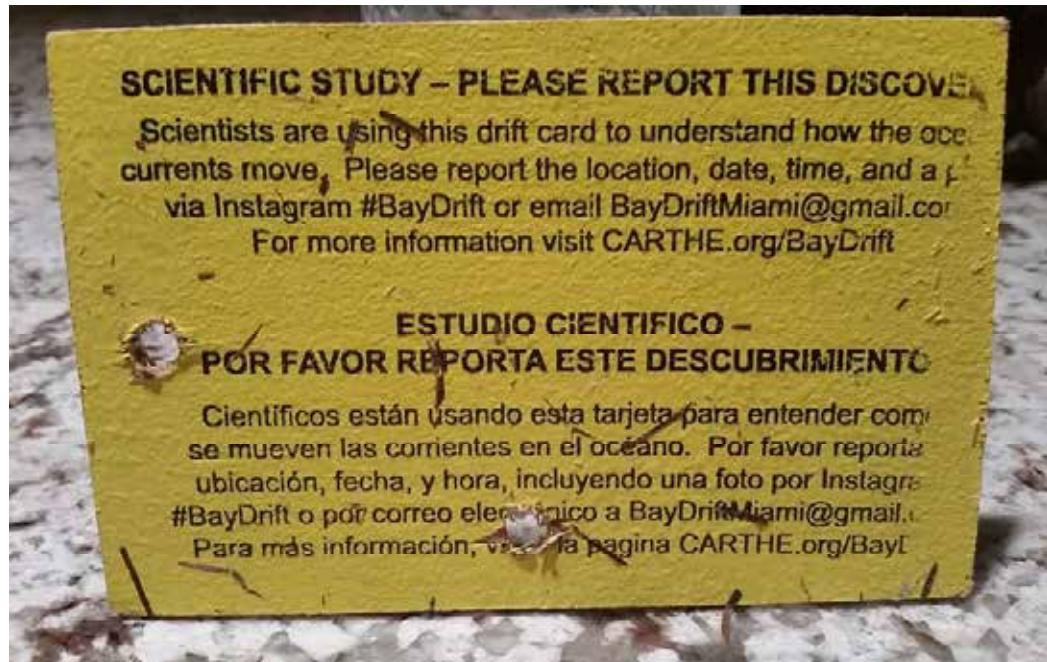


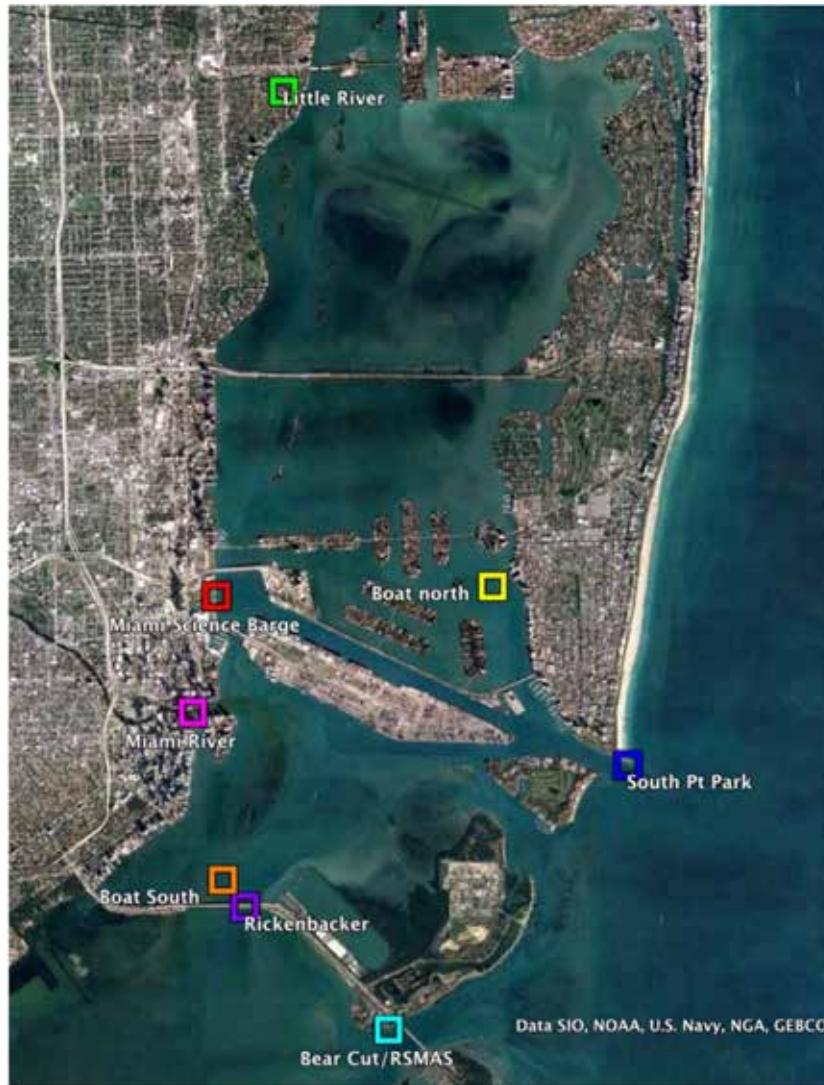
carthe.org/outreach

#Baydrift

Biscayne Bay Drift Card Study

8 sites, 1200 cards, 25 drifters, 12 organizations, 12 schools (2016-2017 stats)





CARTHE
Umiami RSMAS
Vizcaya Museum
Frost Science Museum
Miami Waterkeeper
Surfrider Foundation
Bisc Bay Aquatic Preserves
Intl Seakeeper Society
Miami-Dade DERM
KB Community Foundation
Piano Slam
Bill Baggs State Park
City of Miami Beach
Bisc National Park
12 schools to date

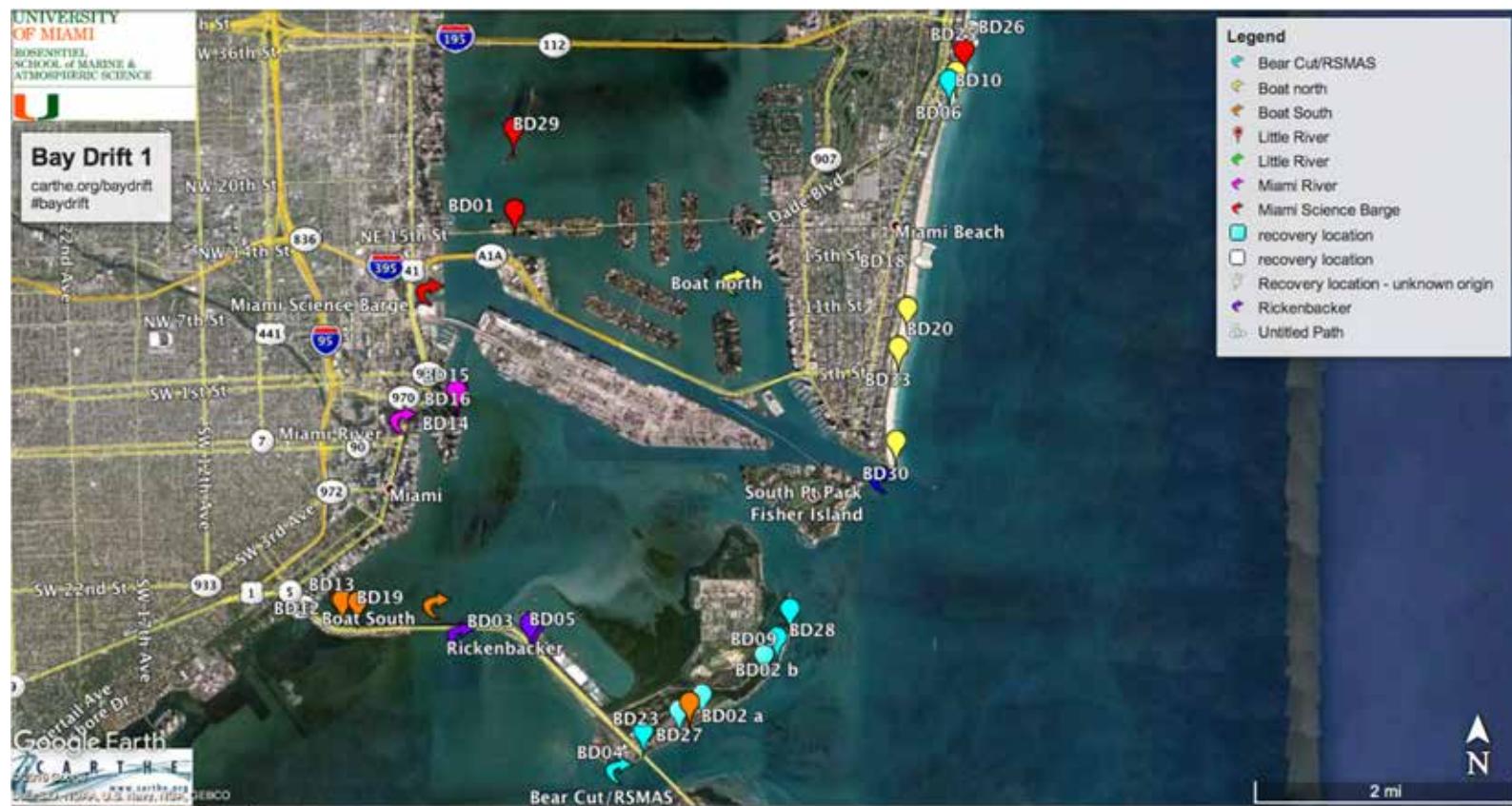
#BayDrift



#BayDrift



#BayDrift



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ATMOSPHERIC SCIENCE



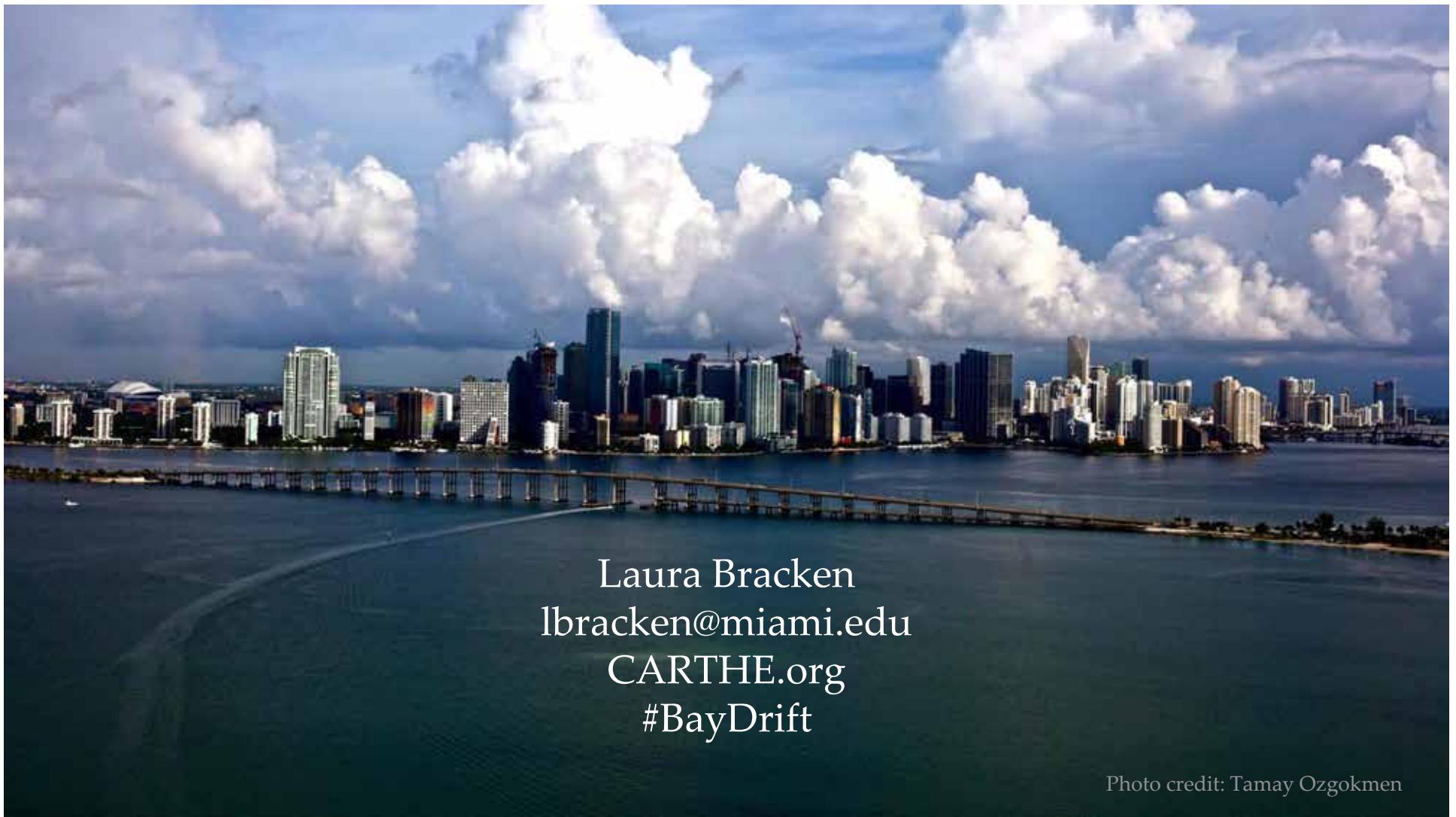
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#BayDrift

Understanding how currents transport debris and pollutants in Biscayne Bay.

- Yellow square - Release site (9/12/16)
- Yellow dot - Drift card recovery site
- Colored lines - Drifter tracks





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#BayDrift

Photo credit: Tamay Ozgokmen