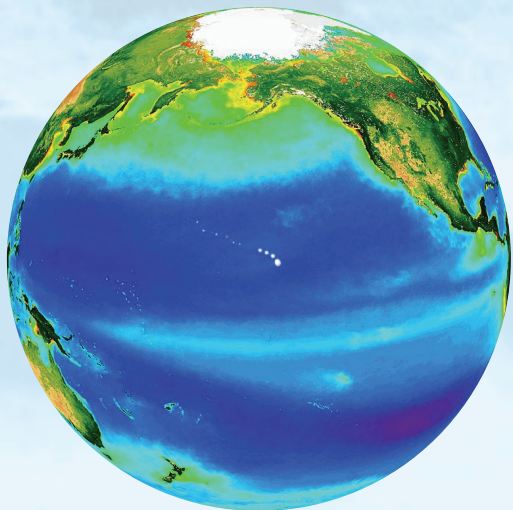


C • MORE - AGOURON SUMMER SYMPOSIA SERIES

A Center for Microbial Oceanography: Research and Education (CMORE)

Summer Course Symposium Sponsored by the Agouron Institute

linking genomes to biomes



Ocean Carbon Cycling in a Changing Climate

Moderated by **Matthew Church**

SYMPOSIUM 1: Saturday, June 7, 2008

8:30 am to 4 pm • William Richardson School of Law, Classroom 3, UH Mānoa

The ocean is a pivotal and interactive component of Earth's climate system. The vast oceanic habitat comprises a globally significant source and sink of numerous climate-sensitive gases such as carbon dioxide (CO₂), methane, and nitrous oxide. The world's oceans absorb approximately 30% of the estimated 6.4×10^{15} g C released each year to the atmosphere as CO₂. Carbon cycling in the sea is governed by a complex set of physical and biological processes, the latter of which consist of a series of (mostly) microbially-mediated biochemical reactions. In this symposium, we will explore some of the climate sensitivities of the ocean carbon cycle. We will ask several important questions:

- 1) What are the most sensitive components of the ocean carbon cycle to climate change?
- 2) How will we detect on-going and future changes to the ocean carbon cycle?
- 3) How can we use our knowledge of ocean ecosystem dynamics to inform policy decisions regarding ocean carbon sequestration?

Speakers for this Symposium represent some of the world's leading experts in the study of the biogeochemical dynamics and carbon cycling in the sea. Please join us for what promises to be an engaging and lively discussion on an important topic.

Invited Speakers: **Dr. Richard Zeebe** • University of Hawai'i

Dr. Anthony Michaels • Proteus Environmental Technologies

Dr. Ricardo Letelier • Oregon State University

Dr. Ken Johnson • Monterey Bay Aquarium and Research Institute

Visit cmore.soest.hawaii.edu/agouron/2008/syllabus.htm for details

Lunch will be provided with a reception to follow.

Please RSVP to **Sharon Sakamoto** (sharons@soest.hawaii.edu) by June 4.

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