Brian Arbic

Professor

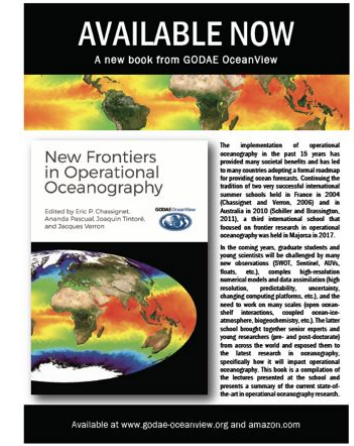
Earth & Environmental Sciences

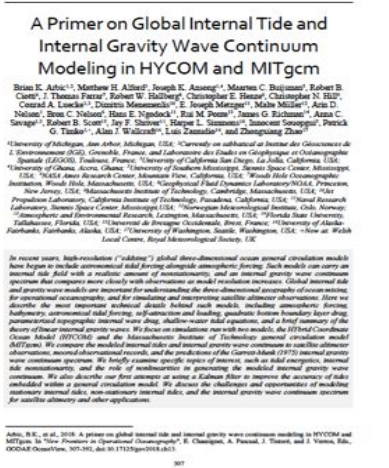
University of Michigan

Research and Teaching

- Ocean Modeling
- Ocean Eddies
- Internal Gravity Waves
- Ocean/atmospheric coupling
- Tides
- Capacity Development

https://arbic.earth.lsa.umich.edu/





CHAPTER 13

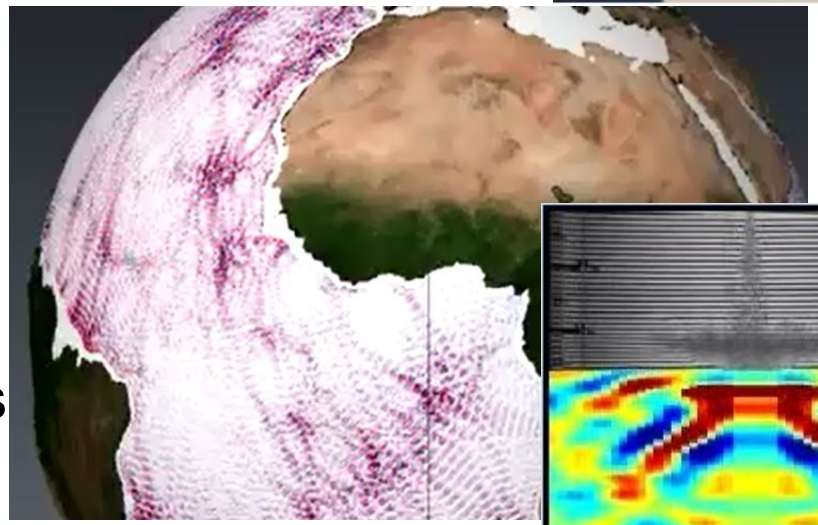
A Primer on Global Internal Tide and Internal Gravity Wave Continuum Modeling in HYCOM and MITgcm

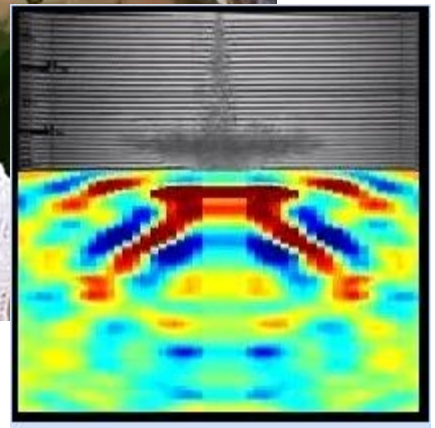
Joseph K. Ansong

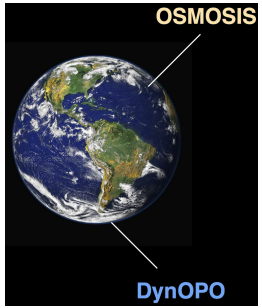
Lecturer
Department of Mathematics
University of Ghana
(jkansong@umich.edu; jkansong@ug.edu.gh)

Research and Teaching

- Applied mathematics: Fluid dynamics, Ocean modeling,
- Internal gravity waves
- Differential Equations, Calculus Algebra & Geometry, etc.
- www-personal.umich.edu/~jkansong/







Christian E. Buckingham

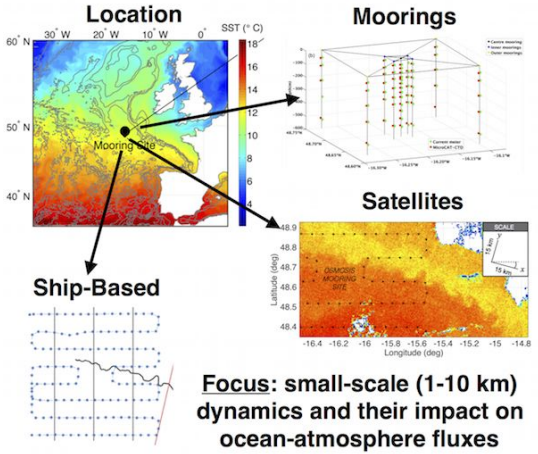
Marie Curie Postdoctoral Fellow

IUEM / LOPS / UBO

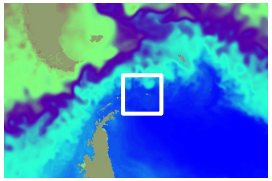
Plouzané, France

Research

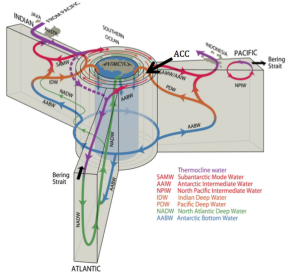
- Ocean physics
- Examine small-scale (0.1-10-km) ocean phenomena that may have climate-scale impacts
- Use observations (e.g. from moorings, satellites, ships)
- And more recently ... models



Model



Ocean circulation

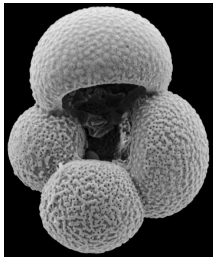


Madelyn Cook

Graduate Student

Earth & Environmental Sciences

University of Michigan



Research

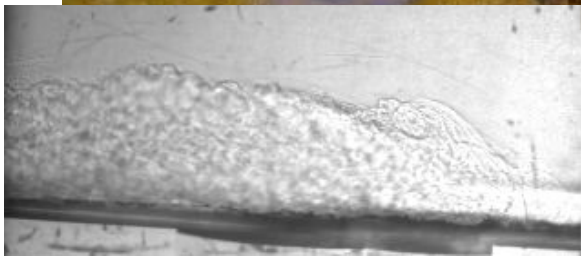
- Paleoceanography
- Chemical Oceanography
- Foraminiferal redox (O_2) proxies
- Speciation and distribution of iodine along the California margin
- Santa Barbara Basin, CA

Aline Cotel

Associate Professor
Civil & Environmental Engineering
University of Michigan

Research and Teaching

- Biological/Environmental Fluid Dynamics
- Mixing and Turbulence
- Capacity building for women engineers in Liberia



https://cee.engin.umich.edu/people/aline-cotel/

Stephan Howden

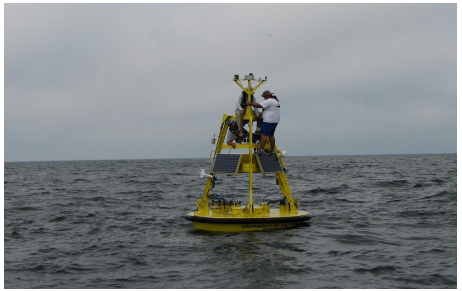
Professor

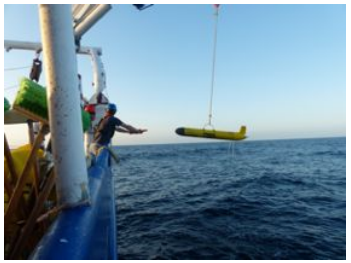
School of Ocean Science and Engineering

The University of Southern Mississippi

Research and Teaching

- Oceanography
- Ocean Observing Systems
- Hydrography
  - Tides
  - Geodesy





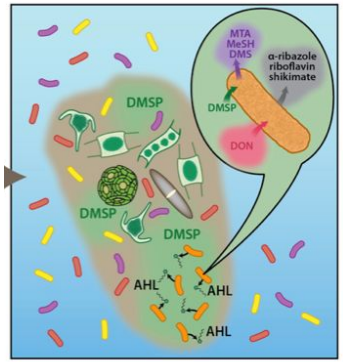
Winn Johnson

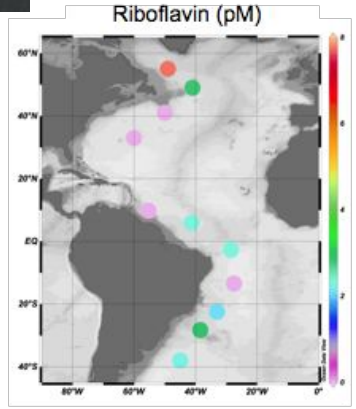
Postdoc

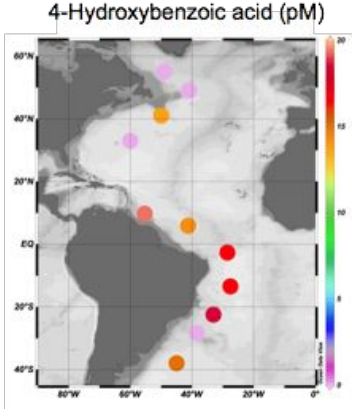
U.S. Naval Research Laboratory

Research

- Marine biogeochemistry
- Mass spectrometry
- Metabolomics
- Microbial ecology

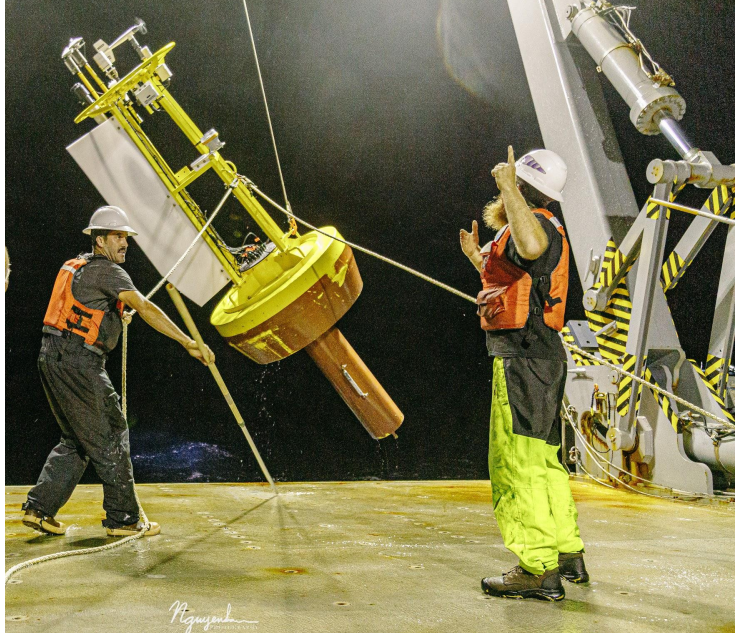






Drew Lucas

Assistant Professor
Marine Physical Laboratory
Scripps Institution of Oceanography



Research and Teaching

- Observational oceanography
- Ocean technology design and development
- Small-scale ocean physics
- Interaction of ocean physics and life
- Human impacts on water quality

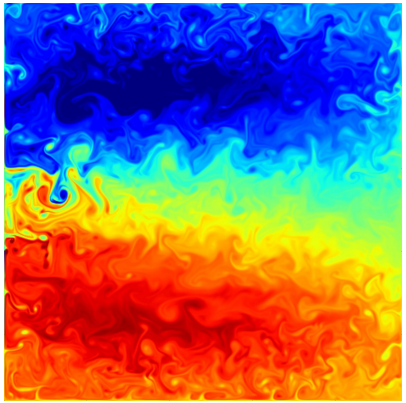
Paige E. Martin

Recent PhD Graduate

Physics/Earth & Environmental Sciences

University of Michigan

Research



- Idealized climate modeling
- Ocean-atmosphere variability
- Spectral analysis
- Python computing
- Science and the arts

Maddie Foster-Martinez

Post-doc Research Associate

Pontchartrain Institute for Environmental Sciences

University of New Orleans

Research and Teaching

- Environmental Engineering
- Fluid Mechanics (vegetation-flow interactions)
- Coastal marsh resiliency
- Fieldwork, fieldwork, lab work, and modeling!

Dimitris Menemenlis

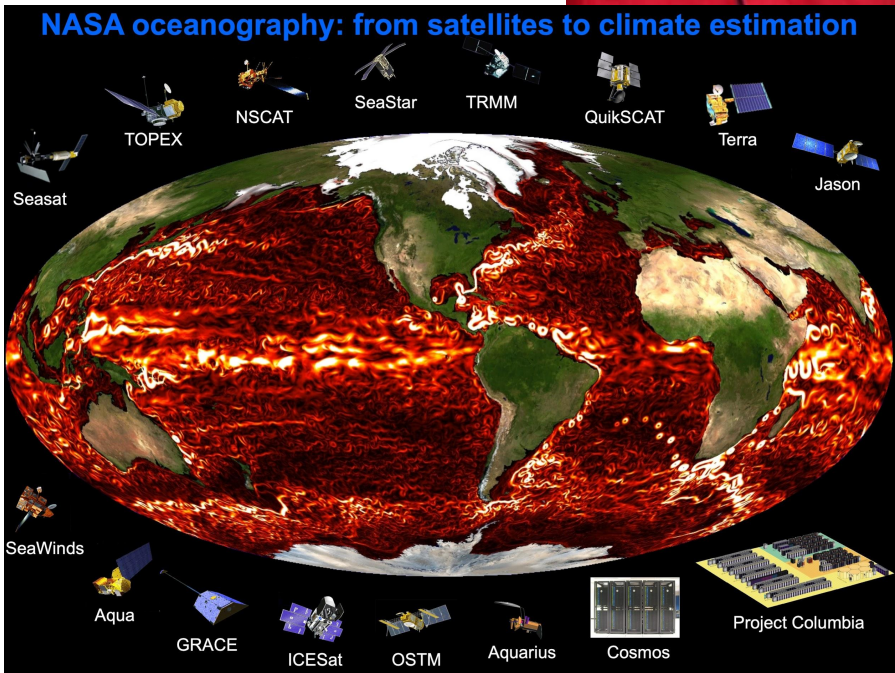
Research Scientist

Jet Propulsion Laboratory

California Institute of Technology

Research

- Global ocean circulation and
- interactions with sea ice, land ice,
- atmosphere, ocean ecology, and
- biogeochemistry.



https://science.jpl.nasa.gov/people/Menemenlis

Julia E. Middleton

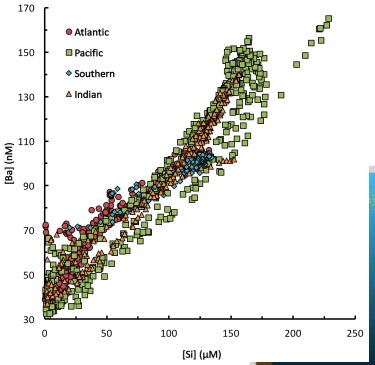
Graduate Student

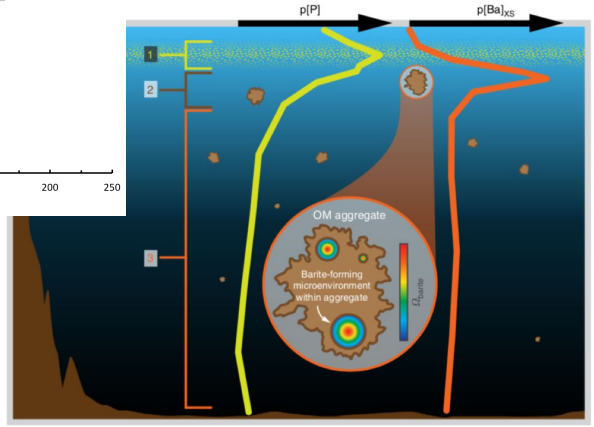
Marine Chemistry & Geochemistry

Woods Hole Oceanographic Institution

Research

- Non-traditional stable isotopes
- Chemical oceanography
- Carbon export proxies
- Marine barium-isotope cycling and systematics



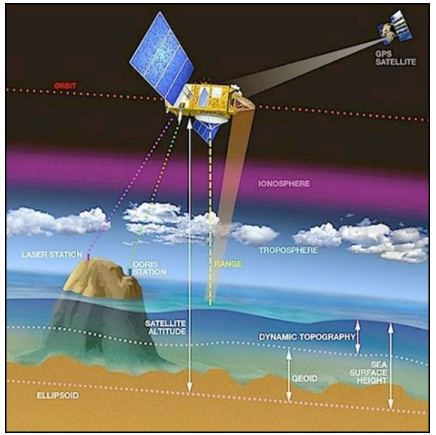


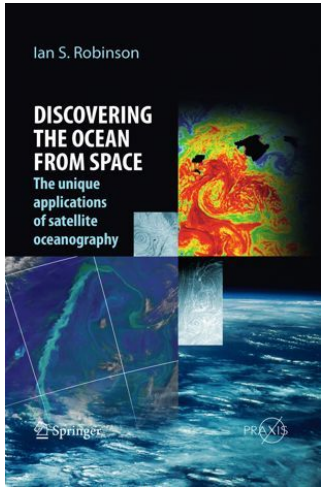
Ebenezer Nyadjro

Asst. Research Professor
Dept. of Physics, University of New Orleans/
US Naval Research Lab
(**enyadjro@uno.edu**)

Research

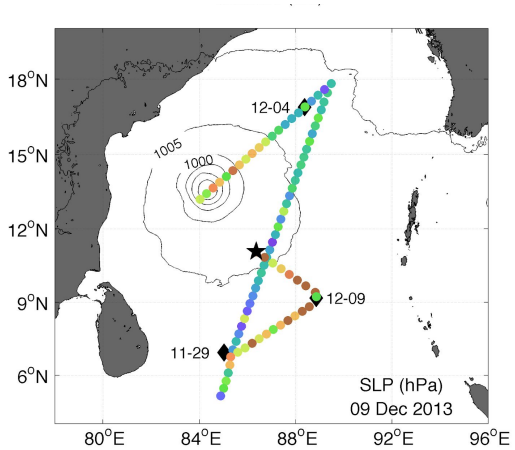
- Satellite Oceanography
- Variability of ocean currents
- Ocean salinity & freshwater dynamics
- Air-sea interactions & tropical climate variability





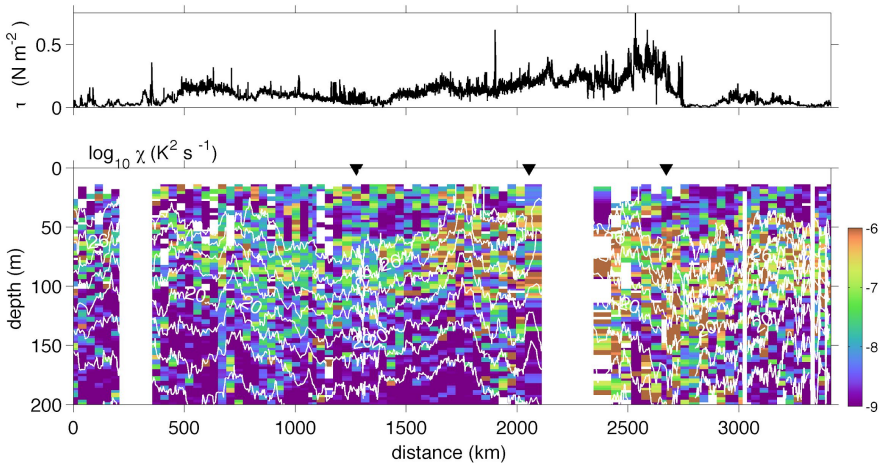
Emily Shroyer

Associate Professor
College of Earth, Ocean, and Atmospheric Sciences
Oregon State University



Research and Teaching

- Physical Oceanographer
- physics at the interface of other disciplines (bio, ats, ice)
- Interplay between small & large-scale processes
- Observations and Modeling



Adam Simon

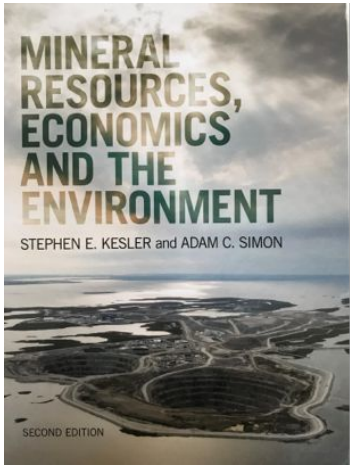
Professor

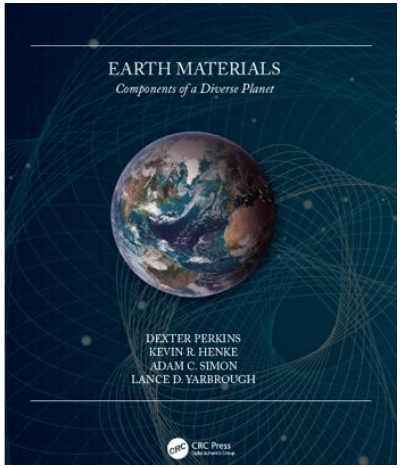
Earth & Environmental Sciences

University of Michigan

Research and Teaching

- Formation of metal ore deposits
- Environmental science
- Sustainability





https://sites.lsa.umich.edu/adamsimon/

Jackie Wrage

Graduate Student

Earth & Environmental Sciences

University of Michigan

Research

- Geology & the environment
- Formation of metal ore deposits
- Magmatic evolution of Earth
- High T/high P geochemistry