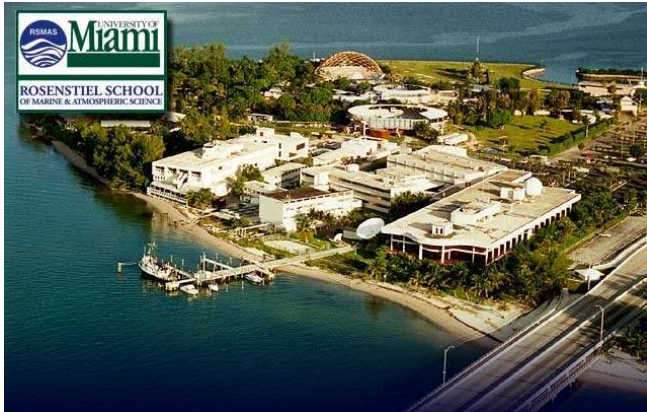
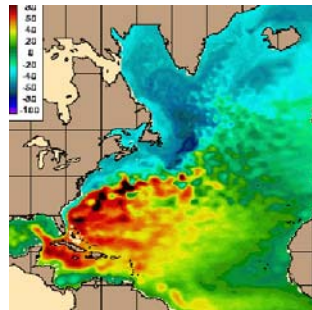


EARN A Ph.D. OR M.S. DEGREE IN METEOROLOGY AND PHYSICAL OCEANOGRAPHY AT THE UNIVERSITY OF MIAMI'S ROSENSTIEL SCHOOL OF MARINE AND ATMOSPHERIC SCIENCE

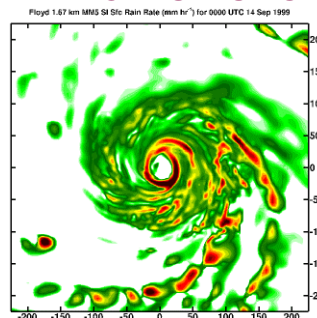


The Rosenstiel School (RSMAS) is the University of Miami's graduate school of marine and atmospheric science. RSMAS is located on a 16-acre campus on the tropical island of Virginia Key, three miles off the coast of Miami. The School ranks among the top oceanographic and meteorological institutions in size and funding, with about 100 faculty and 200 graduate students. Meteorology and Physical Oceanography (MPO), one of six divisions within RSMAS, emphasizes education and research on physical processes governing the ocean and atmosphere.

MPO is engaged in observational, diagnostic, modeling, and theoretical work to study phenomena important to humanity and improve our understanding of the ocean and atmosphere. The program is interdisciplinary with ample opportunities for students to participate in a variety of research projects and gain field and laboratory experience. MPO faculty and students carry out joint research with other RSMAS divisions, the neighboring NOAA AOML laboratory, and the National Hurricane Center.



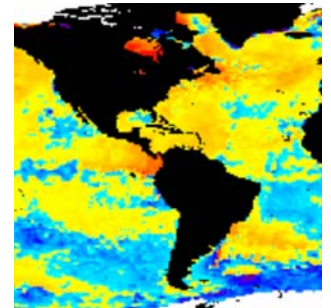
OCEAN MODELING & REMOTE SENSING



HURRICANES



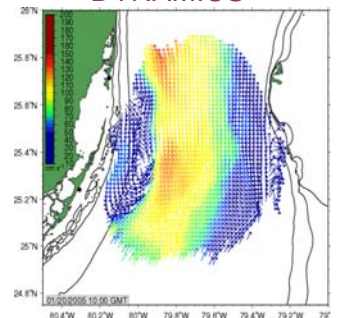
SEAGOING OBSERVATIONS



CLIMATE DYNAMICS



CLOUD PHYSICS



COASTAL DYNAMICS

Fellowships, research and teaching assistantships are available. Applications are due by January 1st for admission in the Fall Semester. An on-line application form and further details are available at <http://www.rsmas.miami.edu/grad-studies/>.

For information on MPO, visit <http://www.rsmas.miami.edu/divs/mpo> or contact: Peter J. Minnett, Chairman, RSMAS/MPO, University of Miami
4600 Rickenbacker Causeway, Miami, FL 33149-1098, USA
pminnett@rsmas.miami.edu

For more information on RSMAS, visit <http://www.rsmas.miami.edu>

**TURN
OVER**

MPO Research Highlights

Hurricanes: RSMAS/MPO is ideally situated for the study of hurricanes through its location in Miami and its proximity to the NOAA Hurricane Research Division and National Hurricane Center. The research includes high-resolution coupled atmosphere-wave-ocean modeling, hurricane dynamics, and novel adaptive observing and data assimilation methods.

Clouds and Mesoscale Processes: Unique to RSMAS are radar technology developed on-site and deployed on-site and world-wide, coupled with an in-depth analysis capability of a larger suite of cloud sensing instrumentation, and modeling efforts of larger-scale tropical cloud systems.

Climate: Research covers a wide range of topics, both global and regional. We study climate variations on time scales from sub-seasonal to interannual to decadal, as well as ancient (paleo) climates and future climate changes. Efforts include analysis of satellite data, field observations and global data products, and a large focus numerical climate modeling.

Ocean Modeling: The HYbrid-Coordinate Ocean Model (HYCOM) is used extensively for coastal, regional, basin, and global applications. Studies focus on shelf and ocean dynamics, Lagrangian prediction, data assimilation, the coastal environment, Observing System Simulation Experiments and biological-physical interactions in ecosystem dynamics. Environmental modeling projects include coral reef studies in the Florida Keys and the Everglades Restoration.

Experimental Oceanography: Our group studies large-scale ocean circulation, highlighting the ocean's role in regional and global climate, including boundary current dynamics and meridional overturning and tropical circulations. Over a broad range of atmospheric conditions, we study air-sea interaction and coastal ocean processes including hurricanes. High resolution current data from high frequency radar network are used to study coastal ocean dynamics.

Satellite Remote Sensing: RSMAS hosts a real-time satellite reception and analysis facility. MPO is involved with retrieval algorithm development, validation and analysis of sea surface temperature, ocean color, sea surface topography and surface winds. These are analyzed in the context of climate research.

FACULTY (contact: {firstinitial}{lastname}@rsmas.miami.edu)

Dr. Bruce Albrecht, Professor (physical meteorology, cloud climate interactions, boundary layer)

Dr. Annalisa Griffa, Research Professor (numerical ocean modeling, Lagrangian observing systems)

Dr. Sharanya Majumdar, Assistant Professor (predictability, adaptive sampling in tropical cyclones)

Dr. Guillermo Podesta, Research Professor (satellite oceanography, remote sensing, climate & society)

Dr. Roni Avissar, Professor & Dean (land-atmosphere and air-sea interactions; environmental engineering)

Dr. Mohamed Iskandarani, Associate Professor (oceanic simulation, spectral element modeling)

Dr. Brian Mapes, Associate Professor (moist convection, tropical dynamics & climate)

Dr. Lynn (Nick) Shay, Professor (air-sea interaction, coastal ocean dynamics, radar remote sensing)

Dr. Lisa Beal, Associate Professor (western boundary currents, flow/topography interactions)

Dr. William Johns, Professor (Large-scale ocean circulation, mesoscale processes, marginal seas and straits)

Dr. Arthur Mariano, Professor (data assimilation, mesoscale and Lagrangian ocean dynamics)

Dr. Brian Soden, Professor and Associate Dean for Professional Masters (climate change, hydrological cycle, climate modeling)

Dr. Otis Brown, Professor (satellite oceanography, remote sensing)

Dr. Igor Kamenkovich, Associate Prof. (large-scale ocean circulation, mesoscale eddies; small-scale mixing)

Dr. Peter Minnett, Professor and Chair (satellite remote sensing, air-sea interaction, Arctic studies)

Dr. Ashwanth Srinivasan Research Asst. Prof. (geophysical applications of High Performance Computing)

Dr. Shuyi Chen, Professor (mesoscale and tropical meteorology, coupled air-sea modeling of hurricanes)

Dr. Benjamin Kirtman, Professor (climate dynamics and predictability)

Dr. David Nolan, Associate Professor (tropical meteorology, vortex dynamics, numerical modeling)

Dr. John Van Leer, Associate Professor (instrumentation, Arctic and coastal ocean dynamics)

Dr. Amy Clement, Associate Professor (climate modeling, paleoclimate, tropical climate)

Dr. Villy Kourafalou, Research Assoc. Professor (coastal and shelf numerical modeling, ecosystem dynamics)

Dr. Donald Olson, Professor (ocean circulation dynamics, mesoscale phenomena, ecosystem dynamics)

Dr. Chidong Zhang, Professor (ocean-atmosphere interaction, tropical dynamics and climate)

Dr. Robert Evans, Research Professor (satellite oceanography, remote sensing)

Dr. Kevin Leaman, Professor (ocean current profiling, Lagrangian techniques, boundary currents)

Dr. Tamay Özgökmen, Professor (multi-scale ocean numerical modeling, small-scale mixing)

Dr. Paquita Zuidema, Associate Professor (Cloud processes, remote sensing, atmospheric radiation and climate)