

LOUIS BOWERS

Wind Resource Meteorologist and Oceanographer

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https://rucool.marine.rutgers.edu/ruwrf-mesoscale-meteorological-model-forecast/

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EXPERIENCE

Senior Meteorologist

Avangrid (Iberdrola) Renewables

October 2007 – Ongoing Radnor, PA

- Led the Wind Resource Analysis for Avangrid's East Coast pipeline of more than 3.5 GW
- Responsible for more than 450 MW of wind projects either operating or under construction
- Significant experience with the use of remote sensing technologies, including LiDAR and SoDAR
- Liason between the US team and the Iberdrola Global Headquarters Team in Madrid, Spain

Senior Meteorologist and Numerical Modeling Specialist - Consultant

Rutgers University

January 2010 – June 2016 New Brunswick, NJ

- Designed and implemented the Rutgers University Offshore Wind Modeling Project
- Designed and operated a high resolution numerical weather prediction model (RUWRF) to provide a climatology of wind and waves offshore of New Jersey
- Created virtual meteorological masts for the assessment of the viability of wind energy applications offshore the coast of New Jersey
- Provided operational weather forecasts for the Rutgers University Center for Ocean Observing Leadership (RUCOOL)

Senior Meteorologist / Physical Oceanographer

Rutgers University

May 2002 – October 2007 New Brunswick, NJ

- Managed a cooperative education Severe-Storm Forecast Project between Rutgers University and Public Service Electric and Gas
- Designed a coupled numerical weather prediction - electric utility plant damage model
- Conducted a preliminary Offshore Wind Analysis for the State of New Jersey Board of Public Utilities
- Served as Lead Meteorologist for RUCOOL during various atmospheric and oceanographic projects funded by Office of Naval Research, Office of Homeland Security, NOAA, and National Science Foundation

Climatologist

Office of the New Jersey State Climatologist

September 2000 – May 2001 Piscataway, NJ

- Performed climatological data analysis for New Jersey climate stations
- Provided certified meteorological data

LIFE PHILOSOPHY

"Saving the world, one wind turbine at a time."

MOST PROUD OF

Success
Construction of the Amazon Wind Farm US East, the first utility scale wind project in the Southeastern US

Love
An ever-lasting love and amazement of the ocean and the atmosphere

STRENGTHS

Wind Energy

Numerical Weather Prediction Model (WRF)

Air-Sea Interaction / Sea Breeze Expert

LANGUAGES

English
Spanish



EDUCATION

M.S. in Physical Oceanography

Rutgers University

Sept 2002 – Oct 2004

B.S. in Meteorology

Rutgers University

Sept 1997 – May 2001

PUBLICATIONS

- Process Driven Improvements to Hurricane Intensity and Storm Surge Forecasts in the Mid-Atlantic Bight, Marine Technology Society
- (RU-COOL) advanced modeling system developed to cost-effectively support offshore wind energy development and operational applications, Oceans, 2012
- Effect of Coastal Upwelling on Circulation and Climate in Coastal Regions American Geophysical Union