

# Nelsie Ramos, Ph.D.

## Meteorologist National Hurricane Center

Nelsie Ramos, Ph.D., is a Meteorologist at NOAA's National Hurricane Center Tropical Analysis and Forecast Branch (TAFB) in Miami, Florida. She is responsible for analyzing the weather and sea conditions in the tropics and forecasting wind and waves across the surface of the oceans. Dr. Ramos leads her unit in activities related to the operational geostationary satellite GOES-16, including providing training and evaluating the new operational products. In addition, Nelsie collaborates with NESDIS in the GOES-16 Risk Reduction Program by evaluating and providing guidance on the enhanced CMORPH integrated satellites precipitation estimates for Hurricane and tropical weather monitoring. Moreover, she collaborates in the development and evaluation of new experimental products at TAFB, such as the Tropical Wave Analyses, which has the potential to be an external experimental product for the 2018 hurricane season. As a bilingual meteorologist, Dr. Ramos provides support to the Hurricane Specialist Unit during landfalling tropical cyclone events. Nelsie is also one of the NHC leaders on Diversity. In this capacity, she assists with the coordination of events with the aim to maintain and improve the environment and labor relations.

Dr. Ramos earned a Bachelor of Science in Mathematics in Computer Sciences with a minor in Geographic Information Systems and Remote Sensing from the University of Puerto Rico, Mayaguez Campus, and a Master of Science in



Atmospheric Sciences from Howard University in Washington, DC. She received her Ph.D. in Atmospheric Sciences from Howard University (December 2012). Her research involved modeling and data assimilation using the NOAA AOML/HRD experimental Hurricane Weather Research and Forecasting model with the aim to finding distinguishing factors to better discriminate between possible developing and non-developing African Easterly Waves into tropical cyclones.

Her early career professional experiences include working as a student intern for NOAA AOML/HRD, NOAA Melbourne Weather Forecast Office, U.S. Bureau of Census Geography Division, and U.S. Geological Survey. As a meteorologist with the National Hurricane Center, she was also the Principal Investigator of the 1<sup>st</sup> collaboration research with the National Centers for Environmental Prediction Environmental Modeling Center. In this investigation, Dr. Ramos and her collaborators assessed the impacts of supplemental upper air soundings on tropical cyclone model forecasts.

Dr. Ramos is a member of the American Meteorological Society, which has been a platform to display her work at Annual and Hurricane Meetings. Additional professional affiliations include: the Hispanic Association of Colleges and Universities, and the AMS Policy Colloquium group. Among other activities, Ramos enjoys doing outreach and mentoring students.

