

Nelsie Ramos, Ph.D.

Meteorologist National Hurricane Center

Nelsie Ramos, Ph.D., is a Marine Forecaster at NOAA's National Hurricane Center Tropical Analysis and Forecast Branch (TAFB) in Miami, Florida. She is a bilingual meteorologist with operational expertise and experience in applied and scientific research.

In TAFB, 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 satellites, and transition to the Advanced Weather Interactive Processing System II. She also leads the evaluation of new satellite operational products, and collaborates in the development and evaluation of new experimental products. Her latest collaboration involves the Tropical Wave Analyses to be an external experimental product for the 2020 hurricane season. 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.

In the hurricane season, Dr. Ramos provides support to the Hurricane Specialist Unit. This support involves the coordination of tropical cyclones watches and warnings with Spanish speaking countries and performing media interviews.

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 doctoral research involved modeling and data assimilation using the NOAA AOML/HRD experimental Hurricane Weather Research and Forecasting model with the aim to find 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 1st 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.

Nelsie is a member of the NWS Diversity and Professional Advancement Working Group, the American Meteorological Society (AMS) and the AMS Policy Colloquium group. Other activities that Dr. Ramos enjoys include outreach and mentoring students.

