

Nelsie Ramos, Ph.D.

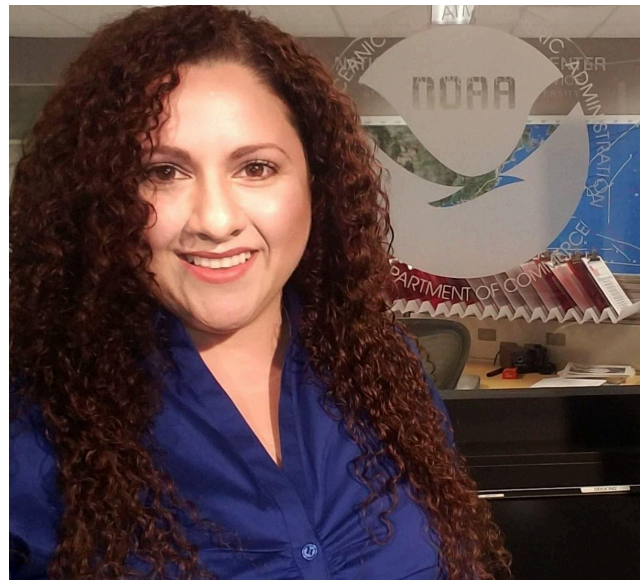
Meteorologist

Tropical Analysis and Forecast Branch National Hurricane Center

Dr. Nelsie Ramos is a bilingual meteorologist with extensive expertise in operational forecasting, applied meteorology, and scientific research. She serves as a Marine Forecaster at the NOAA National Hurricane Center's Tropical Analysis and Forecast Branch (TAFB), where she specializes in analyzing weather and sea conditions and forecasting wind and waves across the tropical and subtropical Atlantic and eastern Pacific Oceans. Dr. Ramos also provides critical Impact-Based Decision Support Services (IDSS) to key partners, including the U.S. Coast Guard, and supports the Hurricane Specialist Unit by estimating tropical cyclone positions, coordinating watches and warnings with Spanish-speaking countries, and conducting media interviews in Spanish.

A leader in satellite operations, Dr. Ramos spearheads TAFB activities related to operational satellite applications, including product evaluation and the transition to advanced systems such as AWIPS-II. Her contributions have been instrumental in the development of innovative marine forecasting tools, such as a thunderstorm and lightning watch product, which she has presented at AMS Conferences and the NHC Mariner's Weather Hazards Workshop. She is also an experienced communicator, leveraging platforms like YouTube and X to share critical weather updates and preparedness information with diverse audiences.

Dr. Ramos's expertise has been recognized with prestigious honors, including the NWS Director's Award for exceptional IDSS during the 2022 Hurricane Season and multiple



Isaac Cline Awards for advancing meteorological operations and initiatives. She has represented the U.S. at international forums, including the WMO RA-IV Hurricane Committee, and participated in outreach efforts such as the Caribbean Hurricane Awareness Tour to prepare vulnerable communities for hurricane seasons.

Dr. Ramos earned her Ph.D. and M.S. in Atmospheric Sciences from Howard University and a B.S. in Mathematics with a concentration in Computer Science from the University of Puerto Rico, Mayaguez Campus. Her early career included impactful work with NOAA AOML Hurricane Research Division, the National Weather Service in Melbourne, and NASA's Partnership for Spatial and Computational Research (PaSCoR). A lifelong advocate for advancing meteorology, she enjoys mentoring students and collaborating on projects that enhance marine safety and public understanding of tropical systems.



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