

Michael Brennan, Ph.D.

Senior Hurricane Specialist National Hurricane Center

Michael Brennan, Ph.D., is a senior hurricane specialist at NOAA's National Hurricane Center in Miami, Florida.

Dr. Brennan attended North Carolina State University, receiving a Bachelor's Degree in Meteorology (1999), and a Master's Degree (2001) and Doctorate (2005) in Atmospheric Sciences. His graduate work focused on issues related to operational forecasting in the Carolinas and Mid-Atlantic, such as the erosion of Appalachian cold-air damming, and the distribution of precipitation in extratropical cyclones, as well other aspects of synoptic/dynamic meteorology and numerical modeling.

Dr. Brennan worked for the University Corporation for Atmospheric Research (UCAR) as a Visiting Scientist at the National Hurricane Center from 2005 to 2007, where he worked on the transition of satellite ocean surface vector wind data from research to operations. In 2007, Dr. Brennan became the Science and Operations Officer (SOO) at the National Weather Service's Weather Prediction Center (WPC) which is responsible for producing wide variety of weather forecast guidance, including Quantitative Precipitation Forecasts (QPF), snow and ice forecasts, model diagnostics, and medium range forecasts for local NWS offices and other customers. As SOO, Dr. Brennan served as the primary science advisor, responsible for staff training and the infusion of science into operations.



Dr. Brennan became a senior hurricane specialist in 2008, a position where operational duties include the issuance of track, intensity, and wind radii forecasts and associated watches and warnings for tropical cyclones in the Atlantic and eastern North Pacific oceans. Dr. Brennan also conducts training on a variety of topics related to tropical cyclones, including the interpretation of satellite ocean surface vector wind data and extratropical transition. His current research interests include quantifying the impact of supplemental observations on model forecasts of tropical cyclone track and intensity.

Dr. Brennan has served as a presenter at numerous scientific meetings, including conferences of the American Meteorological Society, the American Geophysical Union, and the National Weather Association, and was the program chair for the 2014 AMS Conference on Hurricanes and Tropical Meteorology. Dr. Brennan also serves as a reviewer for a number of scientific journals and is currently a member of the American Meteorological Society's committee on Weather Analysis and Forecasting.

