

Short Bio

Timothy Marchok
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Tim Marchok has more than two decades of experience researching and developing hurricane forecast models as well as other tools that provide guidance to hurricane forecasters. Tim played a critical role in the development of the GFDL Hurricane Forecast Model, used operationally by the National Hurricane Center and the U.S. Navy for more than two decades. He has made major contributions to hurricane track, intensity, and wind structure guidance tools, and he pioneered an ensemble forecast system that, in addition to providing guidance on hurricane track and intensity, also offers information to forecasters on the uncertainty of operational hurricane forecasts. His research has also contributed to developing better rainfall forecasts associated with landfalling hurricanes. Tim has been a Research Meteorologist at NOAA's Geophysical Fluid Dynamics Laboratory in Princeton, N.J. since 1998. He routinely presents his research at hurricane conferences, and enjoys participating in public outreach events. Tim earned a Masters in Meteorology from Penn State University, after getting his undergraduate degree in Mathematics from The University of Scranton.