

Matthew Onderlinde, Ph.D.

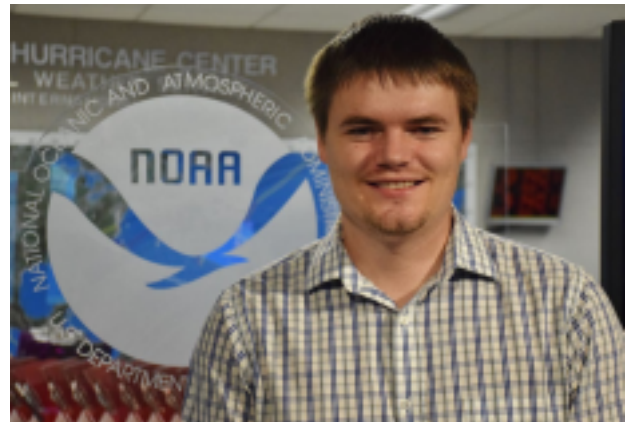
Meteorologist/Programmer National Hurricane Center

Matthew Onderlinde is a meteorologist and programmer for the Technology and Science Branch (TSB) at NOAA's National Hurricane Center in Miami, Florida.

He received a Bachelor Degree from Eastern Michigan University (2005) where he played on the baseball team and a Bachelor Degree of Science in Engineering from the University of Michigan (2007). He received his Master of Science Degree in Meteorology from Florida State University (2009) where he focused on statistical prediction of tropical cyclone tornadoes. Finally, he received his Ph.D. in Meteorology and Physical Oceanography from the University of Miami (2016) where he focused on idealized numerical simulations of tropical cyclones.

While finishing his degree at Miami, he began working at the National Hurricane Center in 2016 and developed the new tropical cyclone graphics software used to display advisory products.

In 2017, Dr. Onderlinde became a programmer in NHC's Technology and Science Branch. In this position, he is part of a team responsible for maintaining the software and data flow used to make forecasts at the National Hurricane Center. He also produced the software for generating NHC's time of arrival graphics, for which he



received a regional Isaac Cline award in 2019. Beginning with the 2018 hurricane season, he has been responsible for content and dataflow related to the NHC website and has served as webmaster.

Dr. Onderlinde developed a statistical method for forecasting the rapid intensification of tropical cyclones: Deterministic to Probabilistic Statistical Model (DTOPS). He is developing additional statistical models for TC intensity prediction as well as the quantification of intensity forecast uncertainty. He has attended and presented at several meteorological meetings and has authored several publications in meteorological journals.



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