

The Joint Hurricane Testbed (JHT): A 2017 update

Christopher Landsea¹, Shirley Murillo², Mark DeMaria¹

¹NWS/NHC; ²OAR/AOML

Analysis and forecast advances, developed by the research community were tested and evaluated at the National Hurricane Center (NHC) facilitated by the Joint Hurricane Testbed (JHT). Eight 8th round projects (FY15-17) were tested and evaluated during the 2016 hurricane season, following any necessary technique modifications or other enhancements. These projects include improvements of observational datasets, intensity and structure statistical forecast methods, probabilistic genesis prediction schemes, quantitative estimates for intensity undersampling by aircraft reconnaissance, tools for anticipating eyewall replacement cycles, and tests of an alternative ensemble storm surge system. Testing of these projects will continue during the 2017 hurricane season. Operational implementation decisions on the 7th round projects will be also presented.