

**Forecasting the Probability of Tropical Cyclone Formation: the reliability
of NOAA forecasts from the 2012 hurricane season**

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Abstract

Atlantic tropical cyclones are responsible for some of the world's greatest economic losses due to natural hazards. Short-term (48 hour) probabilistic forecasting has become an integral part of the prediction of these events. Forecasters from the National Oceanic and Atmospheric Administration's (NOAA) National Hurricane Center (NHC) post subjective probability tropical cyclone forecasts out to 48 hours during each hurricane season. Reliability diagrams provide an immediate indication of the quality of a probabilistic

