TROPICAL CYCLONE FORECASTING AT ECMWF

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In recent years, much work has been done at ECMWF in the development of an early medium-range forecast system to provide guidance for the prediction of severe weather events. Since January 2002, in order to improve the skill of tropical cyclone forecasts, the computation of tropical singular vectors targeted on existing tropical cyclones has been added to the ECMWF Ensemble Prediction System (EPS). Tropical cyclone tracking procedures have been developed for EPS forecasts and forecast guidance products such as strike probability maps are computed routinely. Verification results indicate an improvement in skill for the ECMWF EPS using targeted tropical singular vectors.