

Improving the Skill of National Weather Service's Extratropical Total Water Level Forecast System

Background

Extratropical cyclones are storms that form at middle and high speed winds. One effect of these cyclones is extratropical storm surge, which is the water moved to the speed winds of the coast at risk. To warn people about this hazard, the NWS' Meteorological Development Laboratory (MDL) created the Extratropical Storm Surge (ET Surge) model to shore by the high speed winds of the coast at risk. To warn people about this hazard, the NWS' Meteorological Development Laboratory (MDL) created the Extratropical Storm Surge (ET Surge) model to shore by the high speed winds of the coast at risk. forecast storm surge. The model and uses these as forcing for its numerical storm surge model. Currently, it is run at 00Z, 06Z, 12Z, and 18Z to generate 96 hourly forecasts. After the model is run, the NWS uses it to provide a total water level forecast on its website (http://www.weather.gov/mdl/etsurge), to inform people about their current risk of flooding.





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