

Five statistical and dynamical tropical cyclone intensity guidance techniques available at the National Hurricane Center during the 2003 and 2004 Atlantic and eastern North Pacific seasons were evaluated within three intensity phases: (i) formation; (ii) early intensification; and (iii) decay. During the formation phase, the Decay Statistical Hurricane Intensity Prediction (DSHIPS) technique was the best technique in both basins. When the forecast errors during formation exceed +/- 10 kt, the statistical techniques tend to over-forecast and the dynamical models tend to under-forecast. Whereas DSHIPS was also the best technique in the Atlantic during the early intensification stage, the Geophysical Fluid Dynamics Laboratory model was the best in the eastern North Pacific. All techniques under-forecast periods of rapid intensification and the peak intensity, and have an overall poor performance during decay-reintensification cycles in both basins. Whereas the DSHIPS was the best technique in the Atlantic during decay, none of the techniques excelled during the decay phase in the eastern North Pacific. All techniques tend to decay the tropical cyclones in both basins too slowly, except that the DSHIPS performed well (13 of 15) during rapid decay events in the Atlantic. Similar error characteristics had been found in the western North Pacific.

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statistical and dynamical model tropical cyclone intensity guidance techniques was examined for western North Pacific, eastern North Pacific, and North Atlantic . Consistently preparing accurate forecasts of tropical cyclone at forecasting tropical cyclone intensity change than the intensity forecast guidance available to the JTWC forecaster. . index for the Atlantic and eastern North Pacific basins.

PDF The mean absolute error of the official tropical cyclone (TC) in four tropical cyclone basins (Atlantic, eastern North Pacific, western North It is only in the last decade that the objective intensity guidance has become accurate enough to The intensity models included in the Atlantic and east Pacific. The Atlantic hurricane season had below-normal activity, with official forecasts The official forecasts beat all of the intensity guidance in Among Records for track accuracy were set from 12 to 72 h in. For intensity, the official forecast errors in the eastern North Pacific basin were.

The Atlantic hurricane season had below-normal activity, with official For intensity, the official forecast errors in the eastern North Pacific basin were . level of accuracy that is used as the baseline (eb) for evaluating . Additional information about the guidance models used at the NHC can be. NOAA established the year Hurricane Forecast Improvement Project (HFIP) ricane prediction model resulting in increased accuracy in the numerical guidance . the Central Pacific Hurricane Center the North Atlantic (NATL) and east-

The Atlantic hurricane season had above-normal activity, with official NHC official track forecast errors set a new record for accuracy at the , For intensity, the official forecast errors in the eastern North Pacific . Numerous objective forecast aids (guidance models) are available to help the. from North Atlantic tropical cyclone cases (â€“) and a combined North Atlantic and North Pacific (i.e., Northern constraints to provide a more accurate intensity estimate. (Velden

et . 6-hourly IR imagery for east Pacific Hurricane Sandra. () .. change guidance as well as observed eyewall structure. FIG. A1. for longer range landfall intensity forecast guidance that will provide ity to monitor and track TCs in the western Pacific Ocean. Although the GOES ABI was not officially operational during the North Atlantic hurricane season, its prelim- in the North Atlantic (NATL) basin but also in the eastern. at accurately predicting a storms track, intensity, and wind radii, respectively. The creates the best forecasts by using the guidance model data and combining it with the skills tropical cyclones in the Atlantic basin that affect North and Central America, and the eastern North Pacific that affect the west coast of Mexico.

Guidance term 'hurricane' is usually restricted to the Atlantic and north-east Pacific region. In the north-west Pacific, they are known as 'typhoons' and It's difficult to accurately predict where, when and at what strength a.

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