Chief Pilot's Working Group

Weather Box Expansion

•February/April 2023- Safety Risk Management Panel Convened

•Purpose was to to identify and mitigate any potential risks

Results

•FAA/NWS support the idea of an expansion of weather box applicable sizes

Development of a feedback mechanism

Approximately a year long accuracy assessment

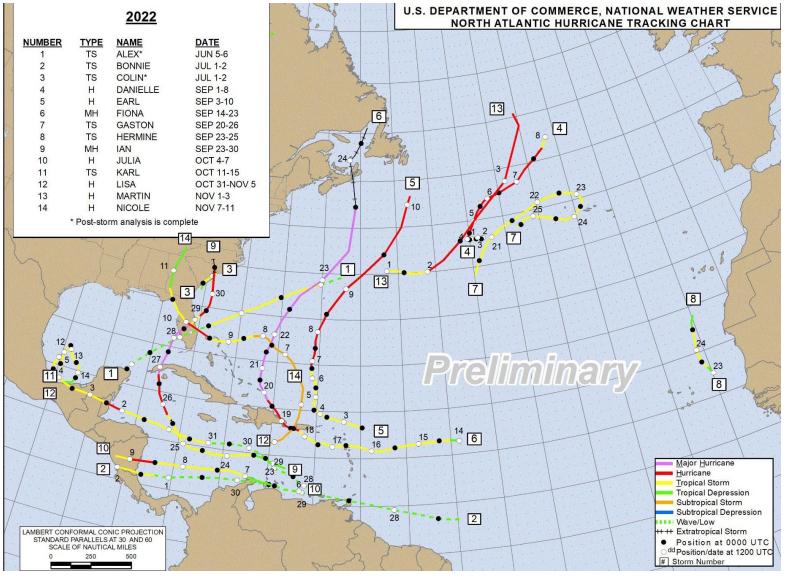
•Recommendations to modify AC 90-80

IFR diversions

- Additional sources of weather in critical areas
- •Hurricane season outlook and planning tools



Quiet Year for Louisiana and SE Texas



Colorado State 2023 Forecast

Atlantic Basin Tropical Activity

Forecast Parameter	Forecast	1991 - 2020 Average
Named Storms	13	14.4
Hurricanes	6	7.2
Major Hurricanes	2	3.2

Below Average

The Weather Channel 2023 Forecast

Atlantic Basin Tropical Activity

Forecast Parameter	Forecast	1991 - 2020 Average
Named Storms	15	14.4
Hurricanes	7	7.2
Major Hurricanes	3	3.2

Average

University of Arizona 2023 Forecast

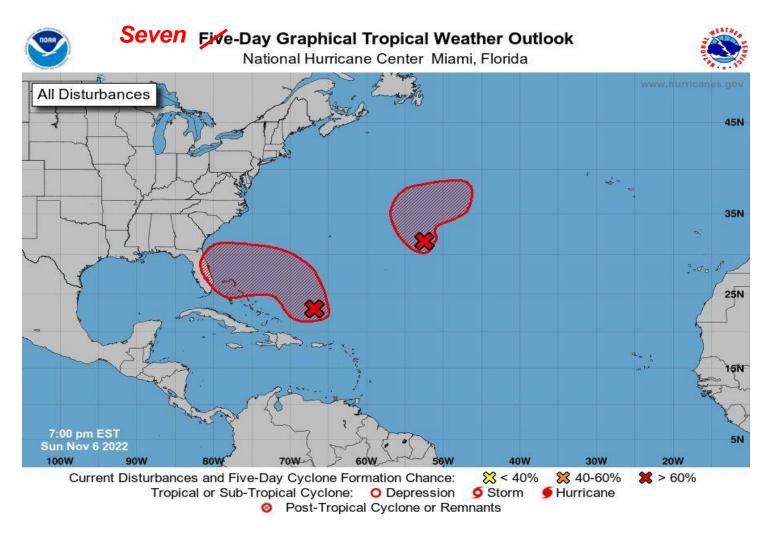
Atlantic Basin Tropical Activity

Forecast Parameter	Forecast	1991 - 2020 Average
Named Storms	19	14.4
Hurricanes	9	7.2
Major Hurricanes	5	3.2

Above Average

Tropical Weather Outlook is now 7 Days

7 Day Tropical Weather Outlook

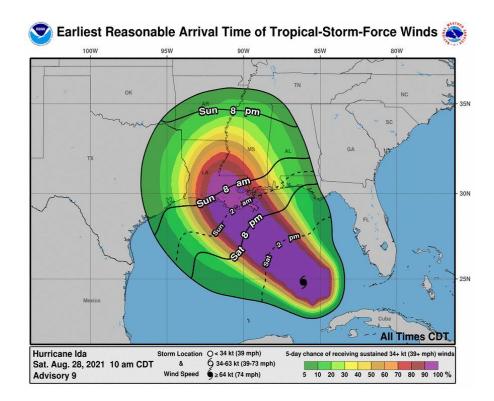


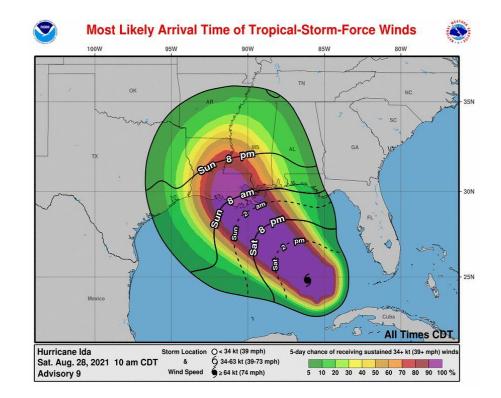
The 5-day Tropical Weather Outlook (TWO) and Graphical Tropical Weather Outlook (GTWO) will be extended to 7 days beginning May 15, 2023.

This product will now show the chance for tropical cyclone formation over the next 7 days.

New URL: https://www.nhc.noaa.gov/gtwo.php?basin =atlc&fdays=7

Time of Arrival Graphics





- Provides probabilistic time of arrival of 34 KT/39 MPH winds
- Earliest reasonable is based on 10% threshold- 90% chance that the storm will arrive AFTER the time on the graphic.
- Most likely is based on 50% threshold

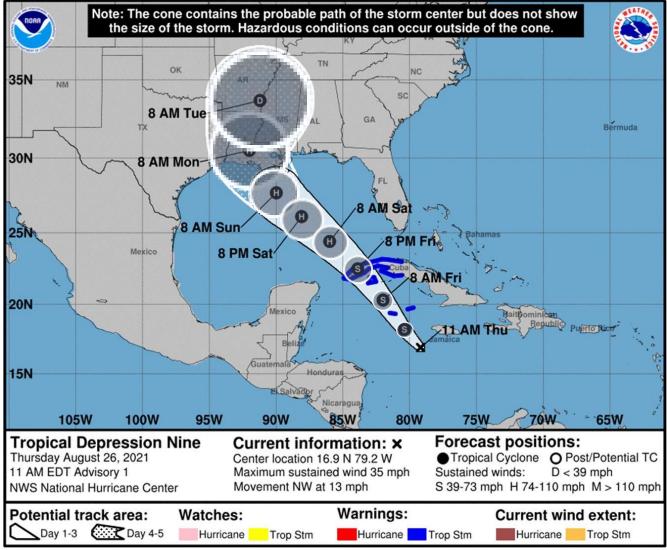
How the Cone is Made

Made from circles based on 67th percentile of NHC error over last 5 years.

Circles are "drawn" around each forecast point (12, 24, 36 h, etc.) based on the 67th percentile of the NHC track forecast error over the past 5 years at that forecast lead time

A cone is drawn based on those circles

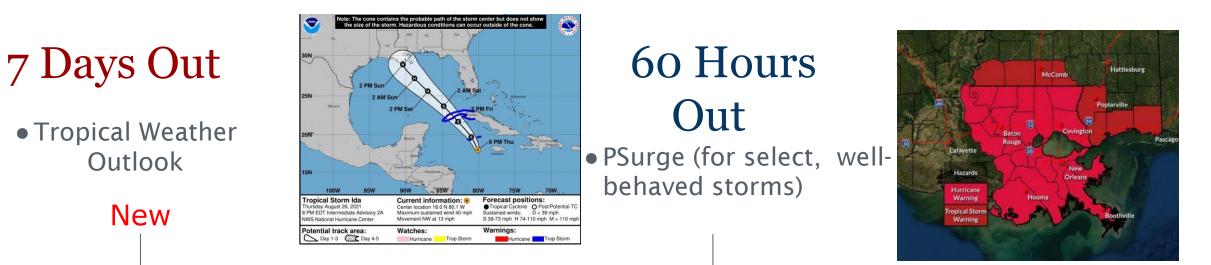
The cone size does not change through the season and does not change for each storm.

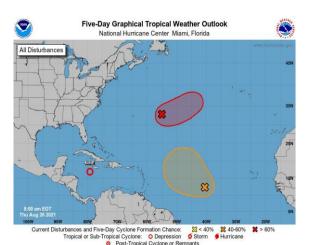




 Keep in mind that impacts could occur away from the cyclone center, and outside of the cone area.

NWS Products to Monitor





⁵ Days Out

 NHC Advisory Packages (cone, wind speed probabilities, TOA)

48 Hours Out

- Watch/Warning Products
- Hurricane Threats and Impacts Graphics
- PSurge/Inundation Forecasts