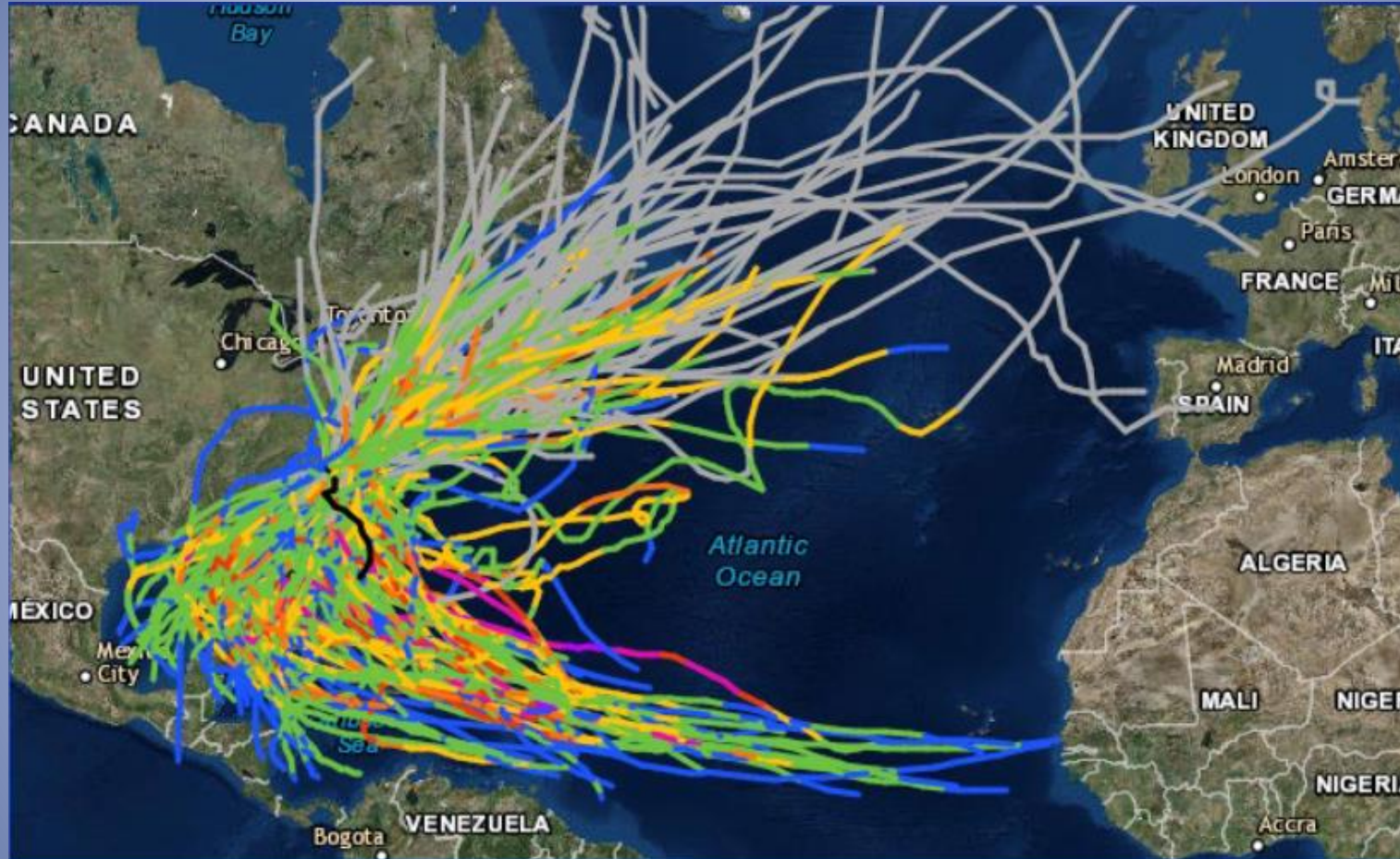


Gleanings from NWS Raleigh / NCEM Hurricane Season Partner Workshop 2022 – Atlantic Hurricane Outlook



Virginia Enzor NC4VA
Central Carolina SKYWARN Emergency Coordinator
NC Deputy AUXCOM Coordinator

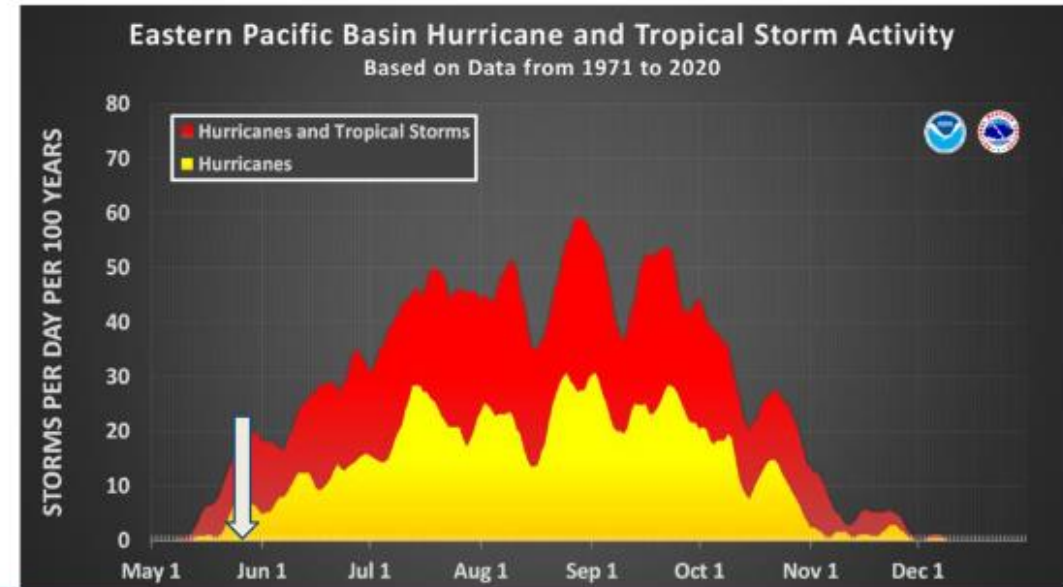
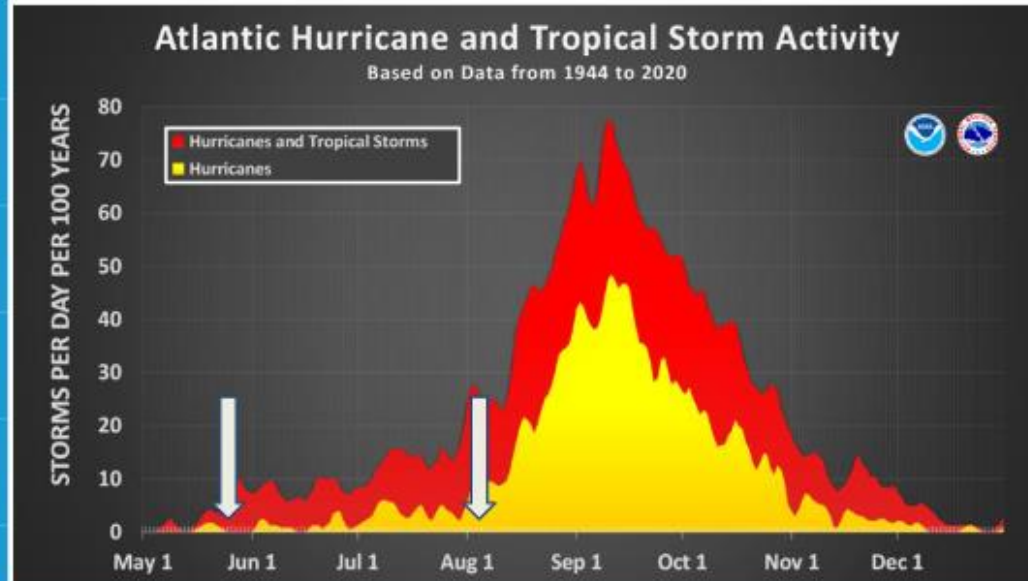


Seasonal Hurricane Outlooks - When



Atlantic Hurricane Season runs from June 1 - November 30

Atlantic Seasonal Hurricane Outlooks are release in late May and early August.





2022.....and 2021



Season Activity and Type	2022 Outlook	May 2021	August 2021 (Observed)	1991-2020 Averages
Chance Above Normal	65%	60%	65% (Above)	
Chance Near Normal	25%	30%	25%	
Chance Below Normal	10%	10%	10%	
Total Named Storms	14-21	13-20	15 -21 (21)	14
Hurricanes	6-10	6-10	7 - 10 (7)	7
Major Hurricanes	3-6	3-4	3 - 5 (4)	3
Accumulated Cyclone Energy (% Median)	115-200%	110-190%	140 - 230% (148%)	100%

There is a 70% probability for each of the predicted ranges. An above-normal season has ACE \geq 130% of the median. An extremely active season has ACE \geq 165% of the median



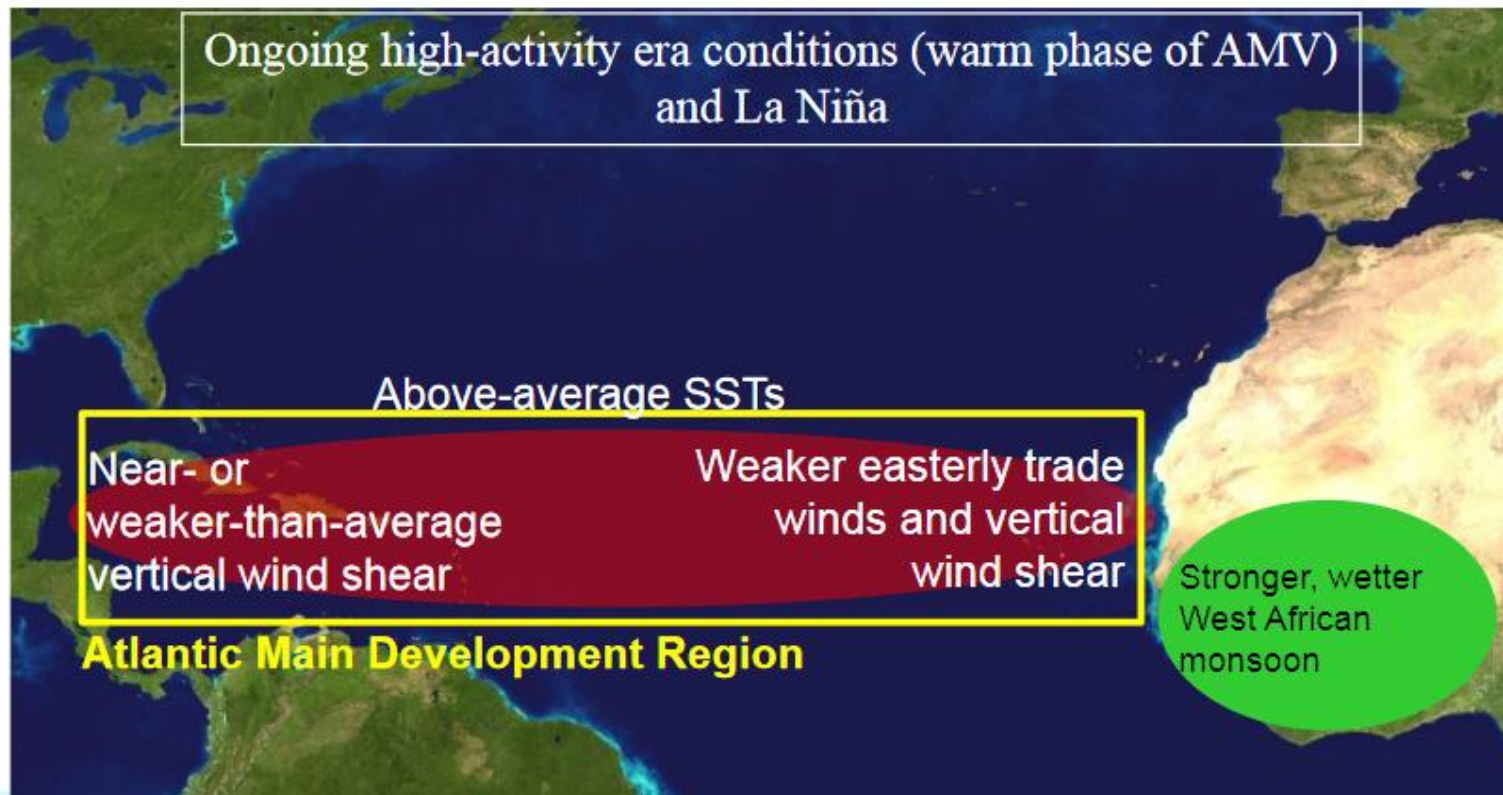
Expected Atlantic Conditions During August-October 2022



Ongoing high-activity era conditions favor more hurricane activity. These conditions include:

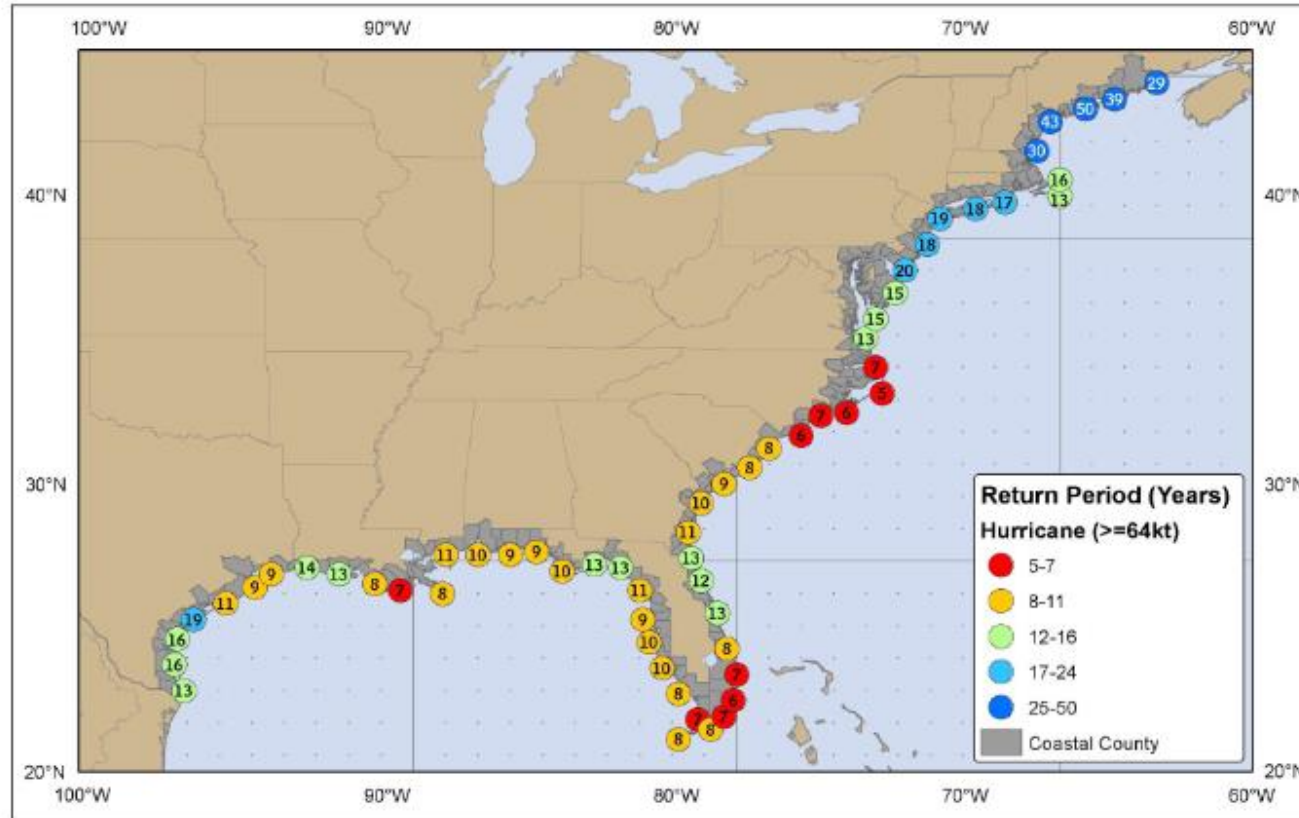
- Above-average sea surface temperatures in the Main Development Region.
- Weaker trade winds, weaker vertical wind shear, and a stronger, wetter West African monsoon.

Additionally, with La Niña favored, there would be no suppression of, or potentially a reinforcement of, the high-activity era conditions.





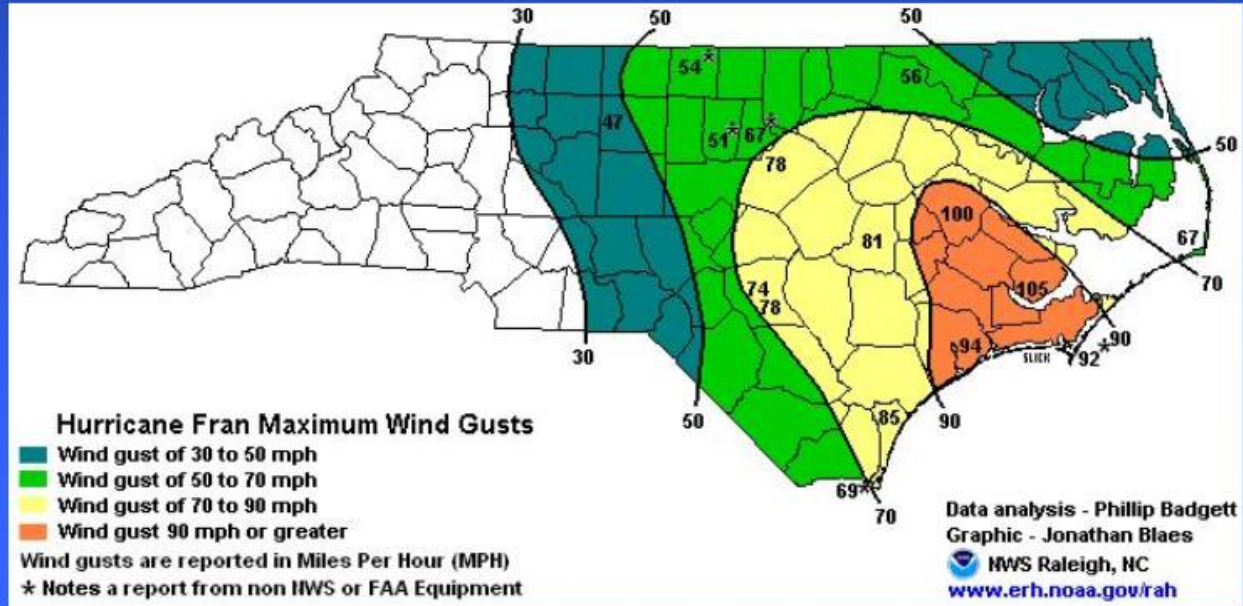
Hurricane Landfalls



Per Nick Petro, Raleigh NWS Warning Coordinator, the return period for a Major Hurricane (Category 3 & above) for the NC coast is 16-18 years. The last Cat 3 & above hurricane to make landfall was Hurricane Fran in 1996, 26 years ago. **We are OVERDUE!**

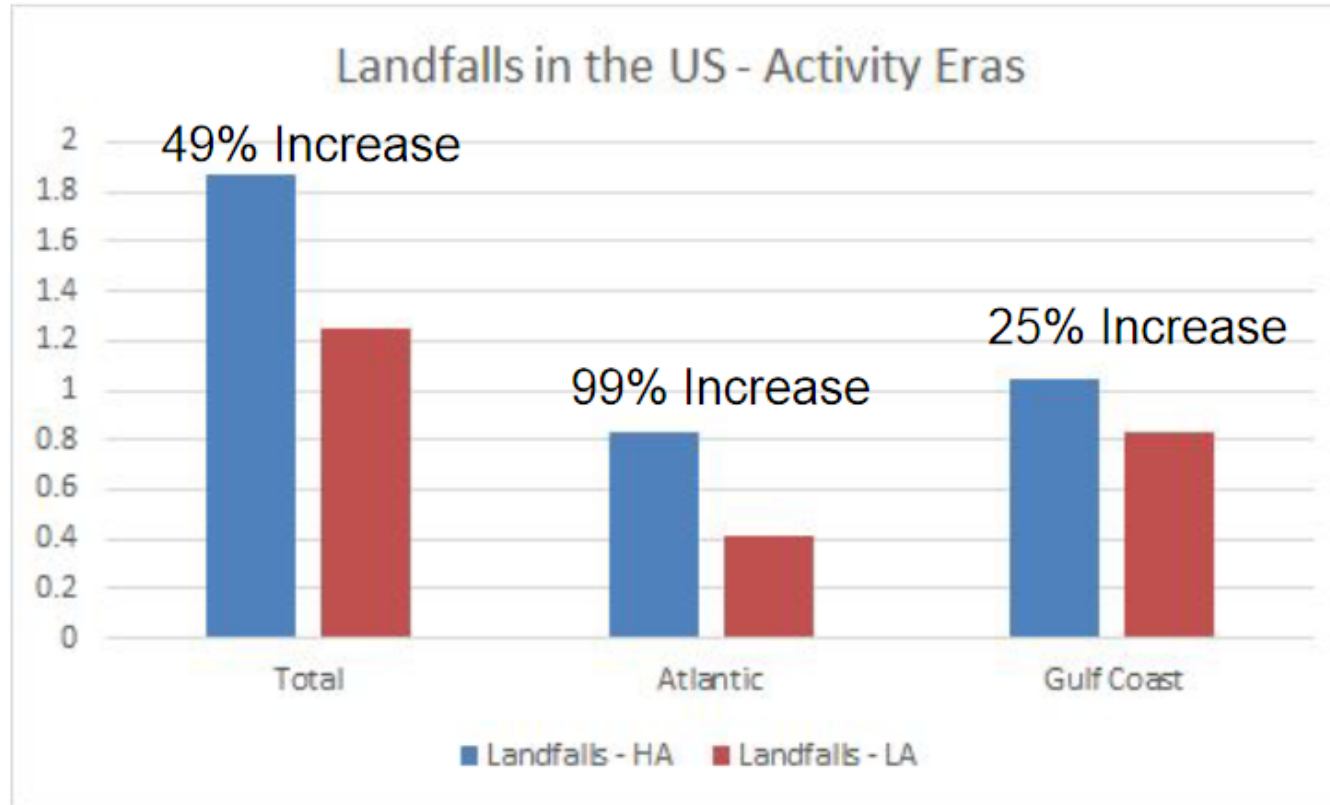


- 24 fatalities in NC
- \$2.3 billion in damages, including \$900 million in Wake County alone.
- \$1 billion in forestry/timber losses.





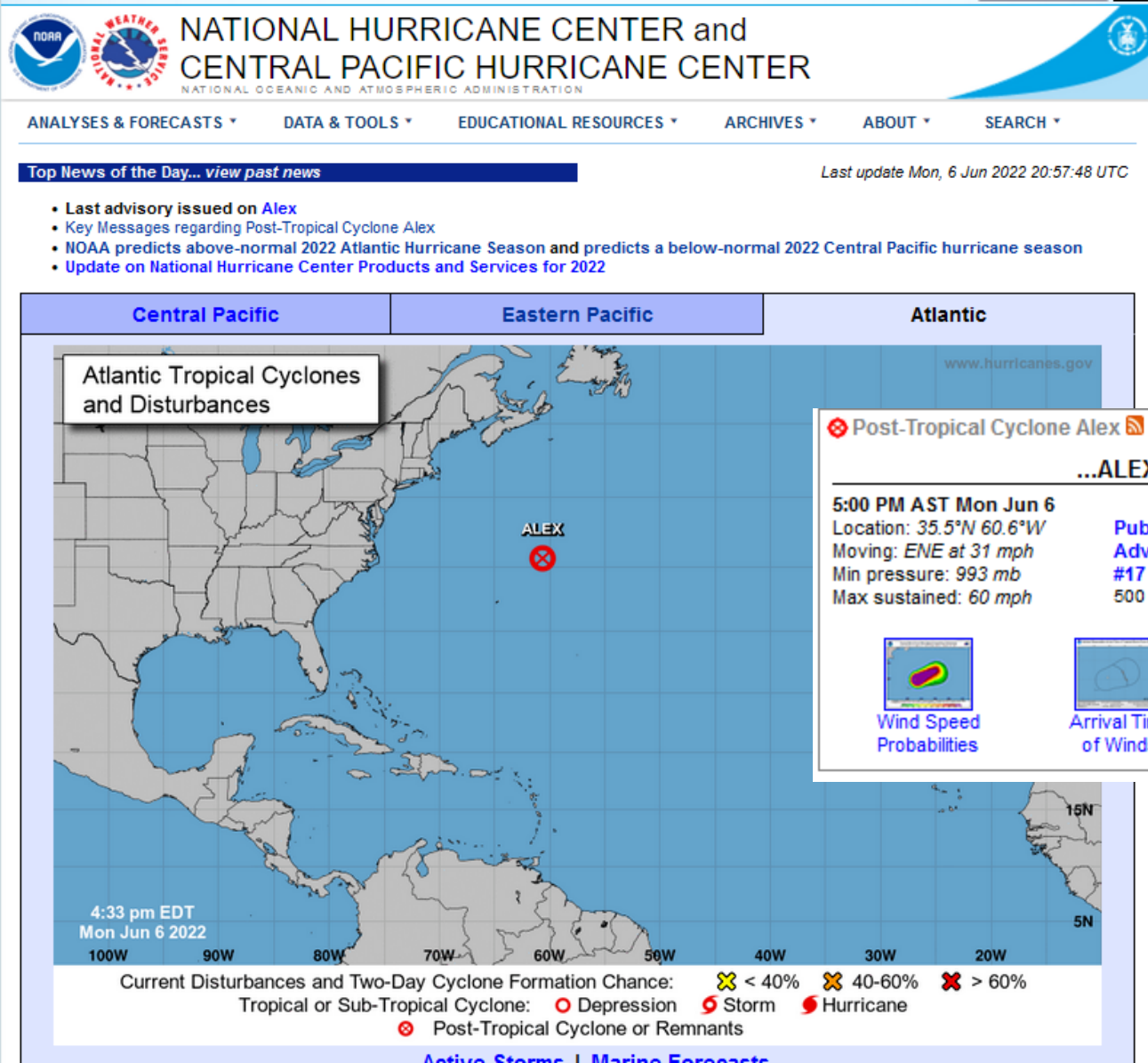
Hurricane Landfalls - Activity Era





During high activity eras, largest increase in hurricane landfalls is along Atlantic coast

U.S. sees almost a doubling of seasons with multiple landfalling hurricanes: Occur about every other year compared to about every fourth year.

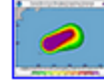






Where to find tropical cyclone information: <https://www.nhc.noaa.gov/>



 **Post-Tropical Cyclone Alex**  [Satellite](#) | [Buoys](#) | [Grids](#) | [Storm Archive](#)


...ALEX BECOMES POST-TROPICAL... ...THIS IS THE LAST NHC ADVISORY...

5:00 PM AST Mon Jun 6
Location: 35.5°N 60.6°W
Moving: ENE at 31 mph
Min pressure: 993 mb
Max sustained: 60 mph


Public Advisory #17 500 PM AST	Aviso Publico* not available	Forecast Advisory #17 2100 UTC	Forecast Discussion #17 500 PM AST	Wind Speed Probabilities #17 2100 UTC		
 Wind Speed Probabilities	 Arrival Time of Winds	 Wind History	 Warnings/Cone Interactive Map	 Warnings/Cone Static Images	 Warnings and Surface Wind	 Key Messages


Where to find tropical cyclone information: Your local NWS Webpage

MY FORECAST
2 Miles SSE Raleigh NC



Partly Cloudy
85°F
29°C [Get Detailed info](#)


Tonight

Mostly Clear
Low: 62°F

Tuesday

Mostly Sunny
High: 88°F
[change location](#)

NWS Forecast Office, Raleigh, NC
[Weather.gov > Raleigh, NC](#)

Current Hazards | Current Conditions | Radar | Forecasts | Rivers and Lakes | Climate and Past Weather | Local Programs

Click a location below for detailed forecast.




Watches, Warnings & Advisories


- Small Craft Advisory
- Rip Current Statement
- Beach Hazards Statement
- Hazardous Weather Outlook

Last Map Update: Mon, Jun. 6, 2022 at 5:00:45 pm EDT


Weather Story
One Last Day of Lower Humidity



Local Radar




Satellite




Text Product Selector (Selected product opens in new window)

Latest Text Products Issued by RAH


Tropical Weather




Radar




Current Weather




Rivers & Lakes




Satellite




Forecast Maps




Hour by Hour Forecast




Graphical Hazards



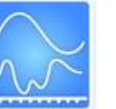
Climate Plots




Fire Weather



Heat Safety



Drought Information



NWS Raleigh Tropical Page
[Weather.gov > Raleigh, NC > NWS Raleigh Tropical Page](#)

Current Hazards | Current Conditions | Radar | Forecasts | Rivers and Lakes | Climate and Past Weather | Local Programs

[NWS Raleigh/Durham homepage](#) [Provide Feedback on this Webpage](#)

[Outlook](#) [Active Storms](#) [Threats and Impacts](#) [Local Products](#) [Satellite](#) [Radar](#) [Social Media](#) [Preparedness](#)

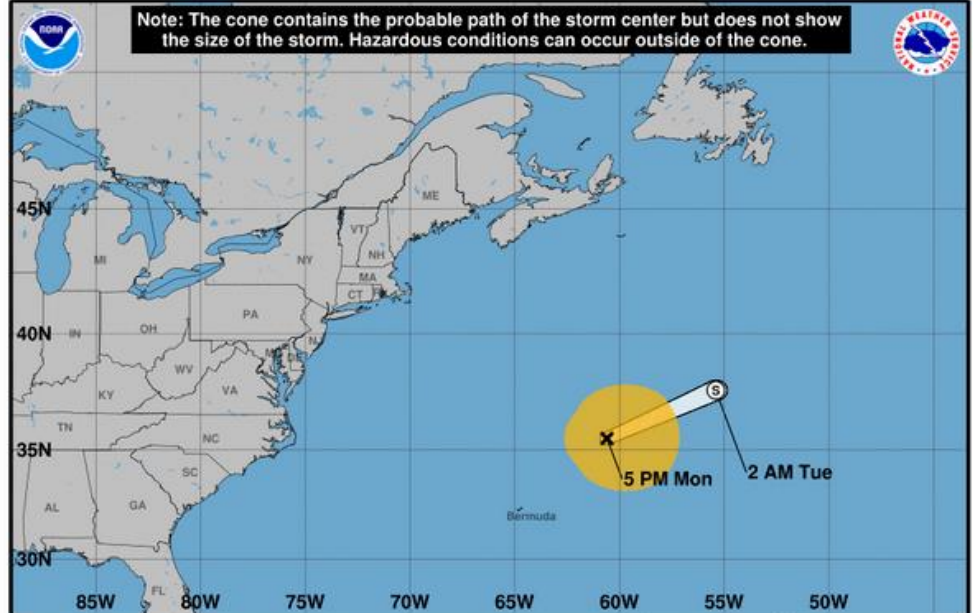
[Links](#)

To re-order the way storms display, drag a storm name left or right. The left-most storm (right-most) will display at the top (bottom).

Post-Tropical Cyclone Alex

National Hurricane Center Advisory 17 for Post-Tropical Cyclone Alex

ALEX BECOMES POST-TROPICAL



Note: The cone contains the probable path of the storm center but does not show the size of the storm. Hazardous conditions can occur outside of the cone.

Post-Tropical Cyclone Alex
Monday June 06, 2022
5 PM AST Advisory 17
NWS National Hurricane Center

Current information: x
Center location 35.5 N 60.6 W
Maximum sustained wind 60 mph
Movement ENE at 31 mph

Forecast positions:
● Tropical Cyclone ○ Post/Potential TC
Sustained winds: D < 39 mph
S 39-73 mph H 74-110 mph M > 110 mph

Potential track area:
Day 1-3 Day 4-5

Watches:
Hurricane Trop Stm

Warnings:
Hurricane Trop Stm

Current wind extent:
Hurricane Trop Stm

Regardless of the outlook, it only takes one hurricane hitting your area for it to be an active season for you. Be prepared!