

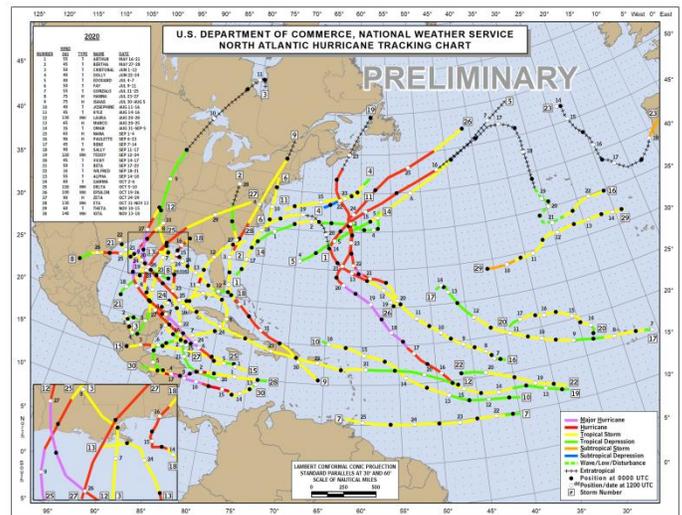
2020 Atlantic Hurricane Season Review

DECEMBER 1, 2020

TROPICAL STORM SEASON HIGHLIGHTS

- The most active Atlantic hurricane season in history with 30 named storms breaking 2005's 28 storms.
- The most U.S. landfalling storms ever with 12 landfalls, breaking the record of 9 back in 1916.
- Six U.S. landfalling hurricanes, tied with 1985 for most in one season.
- There were five Category 4 hurricanes in the Atlantic basin, the most ever in one season.
- Fifth consecutive season with at least one Category 5 storm and the latest ever in the season to occur (Iota).
- 27 of the season's 30 storms broke the record for earliest occurrence.
- 6th consecutive season with at least one 'pre-season' (prior to June 1st), system (Arthur on 5/16 and Bertha on 5/27).
- September was the most active month on record in the Atlantic basin with 10 named storms having formed.
- Major Hurricane Laura made landfall in late August with the highest wind speeds ever recorded at landfall in Louisiana (150mph).
- With Hurricane Zeta making landfall near New Orleans in late October, that made 5 tropical systems to impact the state of Louisiana, an all-time record.
- Despite the very active season, Accumulated Cyclone Energy (ACE), a scaled measure of a tropical storm's intensity + lifecycle in the basin, is currently at 174 for the 2020 season, which places it just outside the top ten all-time.

2020 ATLANTIC TROPICAL STORMS



PLANALYTICS 2020 PRESEASON ATLANTIC TROPICAL FORECAST SUMMARY

- ENSO remains officially 'warm-neutral' although SST thresholds are indicative of a weak (borderline) El Niño driven by warmer readings in the central and western Pacific. Guidance suggests 60% chance of lingering through the Spring and 50% through mid-Summer. **Some longer term models are suggesting a cooling trend by late summer-fall which could promote lower wind shear in the heart of the season, thus a more active season.**
- The Atlantic remains firmly in a warm (positive) AMO. Current SST trends are considerably warmer than normal across the entire equatorial Atlantic, Caribbean, and Gulf of Mexico. **SST model projections maintain a warmer than normal profile in these areas for the upcoming season.**
- Planalytics tropical storm modeling has identified numerous historical analog storms as the basis for

- our outlook. Most representative years are: 1969, 1974, 1999, 2002.
- Planalytics is projecting what is historically considered an **above normal season for tropical activity.**
- Planalytics is projecting for the U.S. several hurricane landfall threats in the Gulf of Mexico, at least one of which could be a major Category 4 or 5 system. We are forecasting a relatively quieter year for Florida and the East Coast.

2020 ATLANTIC HURRICANE SEASON SUMMARY		
	AVERAGE	THIS YEAR
NAMED STORMS	12	30
HURRICANES	6	13
MAJOR HURRICANES	3	6

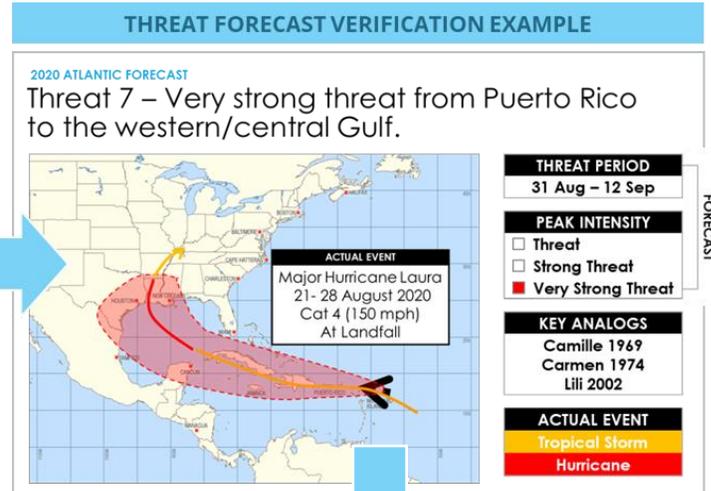
Source: NOAA

PRESEASON TROPICAL STORM THREAT FORECASTS: ATLANTIC BASIN

Planalytics employs proprietary forecasting models and research to produce “bottom-up” long-range forecasts of “threat situations” – active periods and locations. Within these threats, we forecast the timing, path, and peak intensity of tropical storms expected to occur within the threat period. There are typically one to three actual storms that occur within the period and location of each threat situation forecast. The primary threat period ranges from 10 to 14 days.



Note: Intensity category Very Strong Threat indicates peak intensity of Category 4 or 5.

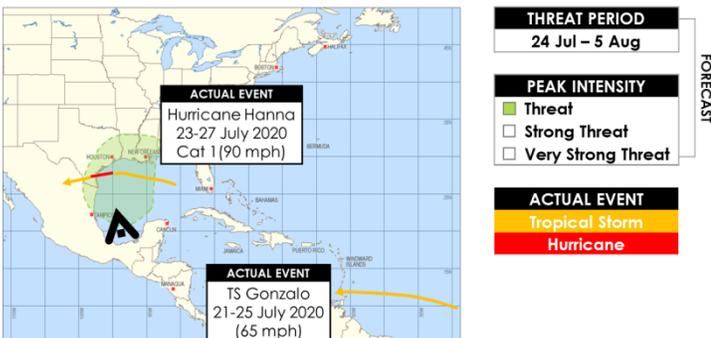


PRE-SEASON ATLANTIC THREAT FORECAST ACCURACY

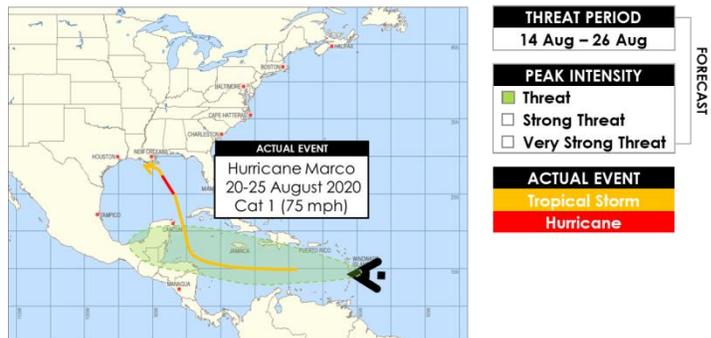
	TIMING	LOCATION	INTENSITY	OVERALL
2020	90.0%	90.0%	70.0%	83.3%
3 YEAR	85.2%	66.7%	66.7%	72.9%
14 YEAR	88.9%	65.0%	59.8%	71.2%

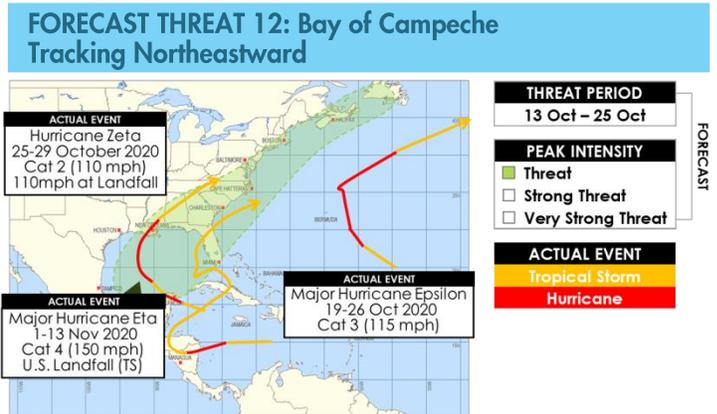
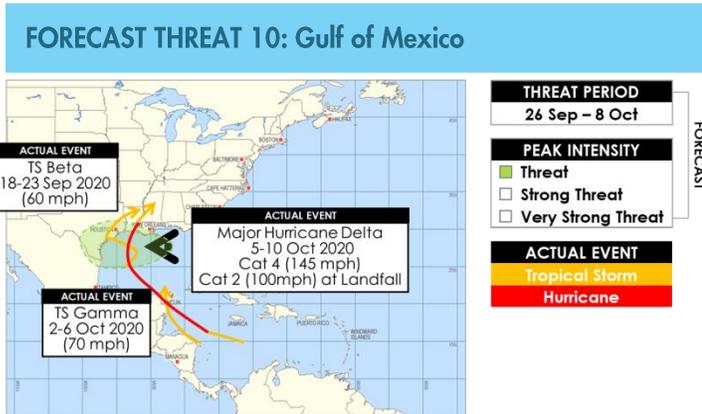
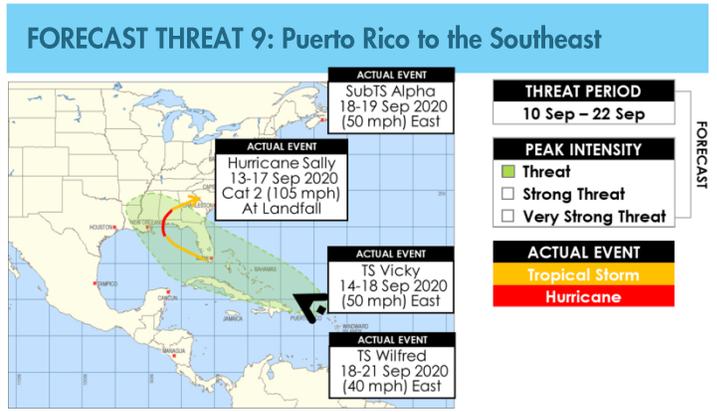
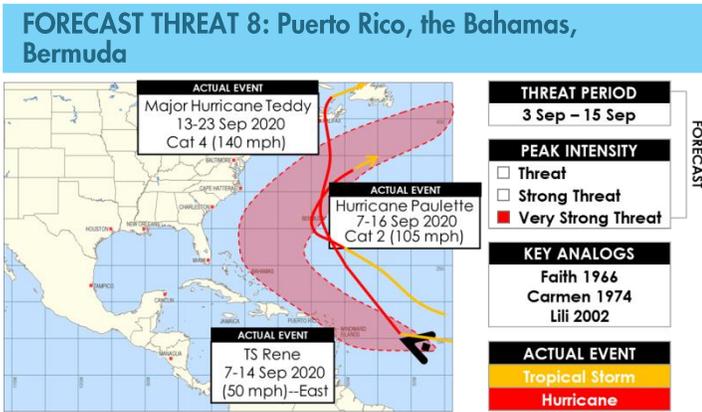
Planalytics has the proven ability to show clients when, where, and what to expect four months before the start of the tropical storm season. Moreover, because we rarely revise or even tweak the forecasts once issued, clients can proactively make critical portfolio management and hedging decisions.

FORECAST THREAT 2: Western Gulf of Mexico



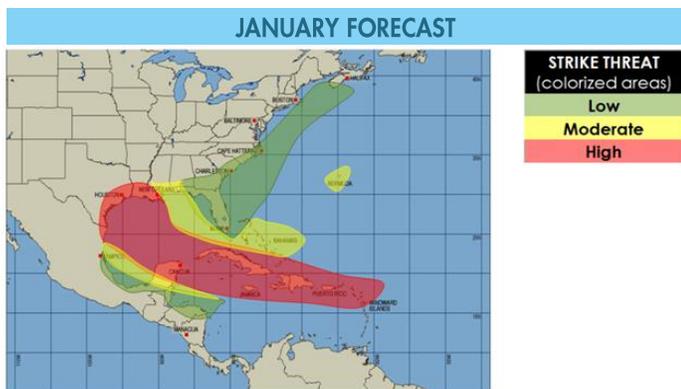
FORECAST THREAT 5: Western Caribbean to the Bay of Campeche





SEASONAL STRIKE FORECAST: ATLANTIC BASIN

The Seasonal Strike Forecast is an aggregate view of the individual threat situation forecasts, focusing on the relative landfall potential by storm intensity.



Note: Not included above are the tracks for tropical storms Cristobal and Beta, which also made landfall in the red high-risk zone.

Planalytics' Global Severe Weather Service provides year-round forecasting, monitoring, tracking, and alerting of weather perils. We deliver targeted actionable insights into the volatile weather risks of concern to the re/insurance and insurance-linked securities industries.



Planalytics 2021 Pre-season Tropical Storm Forecasts available in late-January. [For more information](#) or to schedule a personal consultation about how Planalytics can help your company, contact Ryan Quinn, rquinn@planalytics.com.

