June - November 2020 Atlantic Hurricane Season Outlooks

ACTIVE TO EXTREMELY ACTIVE

Update of 7 August 2020

compiled by CIMH
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2020 Hurricane Season Forecasts strong consensus: ACTIVE TO EXTREMELY ACTIVE SEASON

Forecast Parameter	CSU	Tropical	Weather	NOAA Climate
and	5 th August	Storm Risk	Channel	Prediction Center
1981-2010	2020	5 th August	16 th July	6st August 2020 (70%
Climatology (in		2020	2020	confidence range)

3-6

140-230

Cili Harology (ii i

parentheses)

Named Storms (NS) (12) 24 24 20 19-25

Hurricanes (H) (5.9) 12 10 7-11 8

5

200

Intense Hurricanes (IH) (2.3)

Accumulated Cyclone

Energy (ACE) (Median = 100)

4

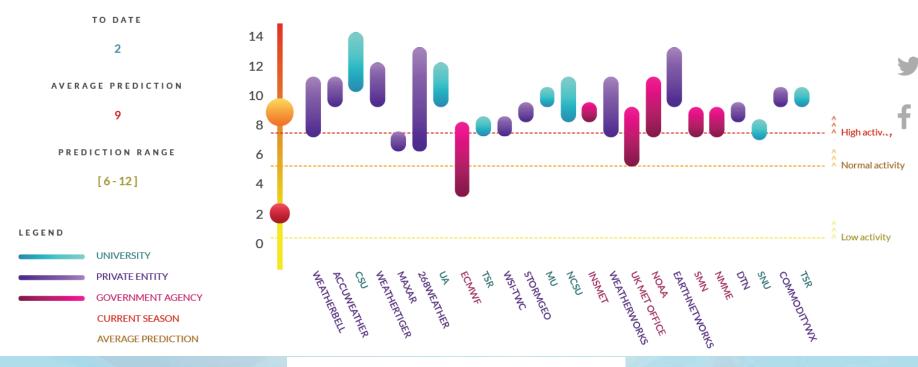
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Comparing 2020 CSU Atlantic Hurricane Season outlook to 2017

Forecast Parameter and 1981-2010	Issue Date	Issue Date	Issue Date	Issue Date	Observed Thru	Remainder of
Average (in parentheses)	2 April	4 June	7 July	5 August	4 August	Season
	2020	2020	2020	2020	2020	Forecast
Named Storms (NS) (12.1)	16	19	20	24*	9	15
Named Storm Days (NSD) (59.4)	80	85	85	100	23.75	76.25
Hurricanes (H) (6.4)	8	9	9	12	2	10
Hurricane Days (HD) (24.2)	35	40	40	45	3	42
Major Hurricanes (MH) (2.7)	4	4	4	5	0	5
Major Hurricane Days (MHD) (6.2)	9	9	9	11	0	11
Accumulated Cyclone Energy (ACE) (106)	150	160	160	200	23	177
Net Tropical Cyclone Activity (NTC) (116%)	160	170	170	215	31	184

_2017	6 April	Update 1 June	Update 5 July	Update 4 August	Obs.
Hurricanes	4	6	8	8	10
Named Storms	11	14	15	16	17
Hurricane Days	16	25	35	35	51.25
Named Storm Days	50	60	70	70	91.25
Major Hurricanes	2	2	3	3	6
Major Hurricane Days	4	5	7	7	19.25
Accumulated Cyclone Energy	75	100	135	135	226
Net Tropical Cyclone Activity	85	110	140	140	231

Overview of forecasted number of Atlantic Hurricanes in 2020 (as of August 2020)



seasonalhurricanepredictions.bsc.es

Caribbean Landfall probabilities

CSU:

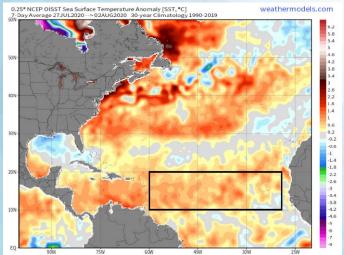
- ▶ 1901-2000 average probability for major hurricanes tracking into the Caribbean (10-20°N, 60-88°W) 42%, for all hurricanes tracking into the Caribbean is 57%.
- Forecast for 2020:
 63% probability for at least one major hurricane (Cat 3, 4 or 5),
 92% probability for at least one hurricane (all categories).

TSR:

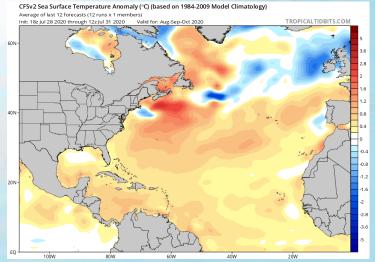
- ► 1950-2019 average number of tropical cyclones tracking through the Caribbean Sea and Gulf of Mexico: 8 named storms, 4 hurricanes and 2 major hurricanes
- Forecast for 2020:
 17 named storms, 8 hurricanes and 4 major hurricanes

Unusually Warm sea surface temperatures (SSTs) in the Main Development Region for hurricanes → typical of an active season

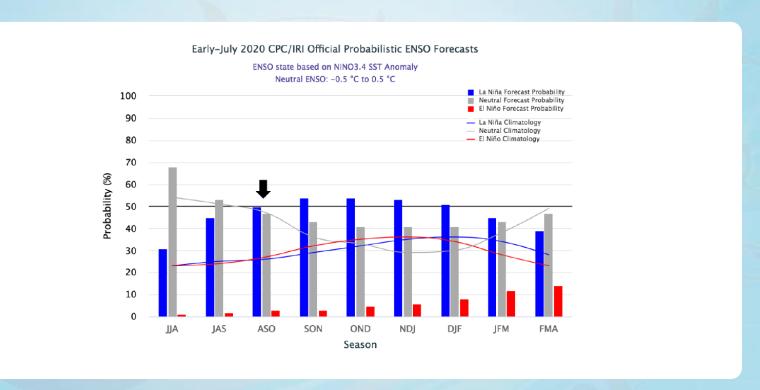
Observations of the latest SST anomalies (source: NOAA/NCEP)



Forecast SST Anomalies for August through October 2020 (source: NOAA/NCEP)

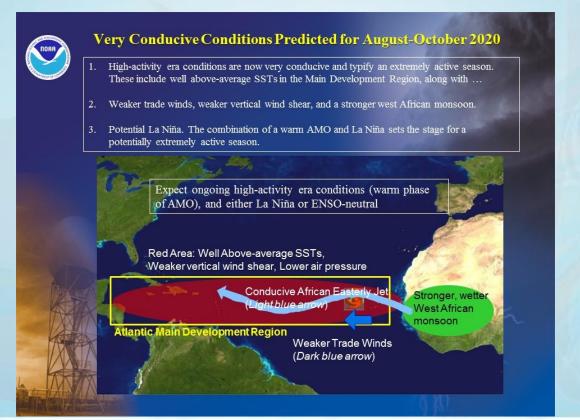


Possible La Niña conditions by October might boost Hurricane Season activity



Source: NOAA CPC / IRI – ENSO: Recent Evolution, Current Status and Predictions

NOAA/CPC Outlook – drivers of hurricane season activity in 2020 (simplified)





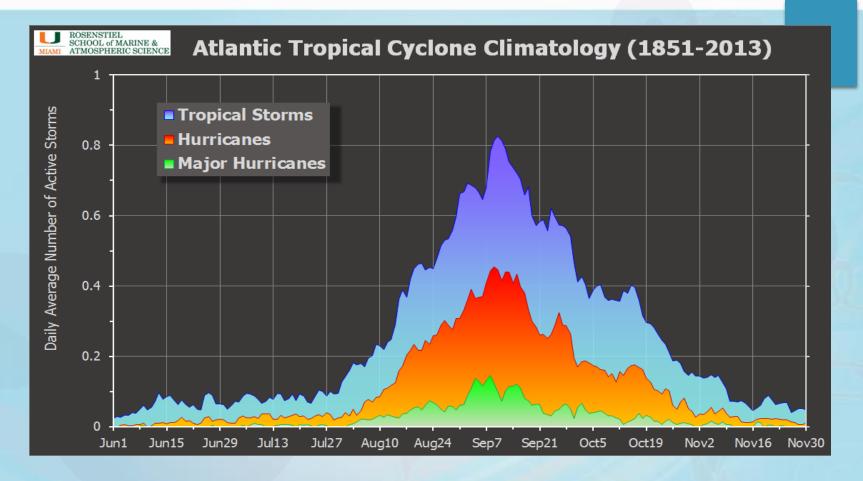
2020 Atlantic Tropical Cyclone Names

Arthur **Bortha** Cristoha Edouard Conzalo

anna **Isaias** Josephine Laura Marco Nana

Omar Paulette Rene Sally **Teddy Vicky** Wilfred

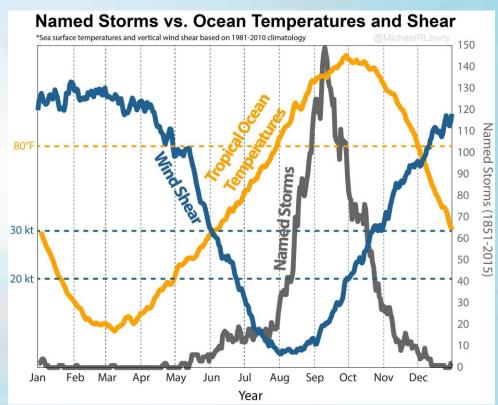
Names provided by the World Meteorological Organization. If there are more than 21 named storms names will be taken from the Greek alphabet.



Basin-wide TC activity historically peaks on 10 September

Could we make useful predictions of parts of the season?

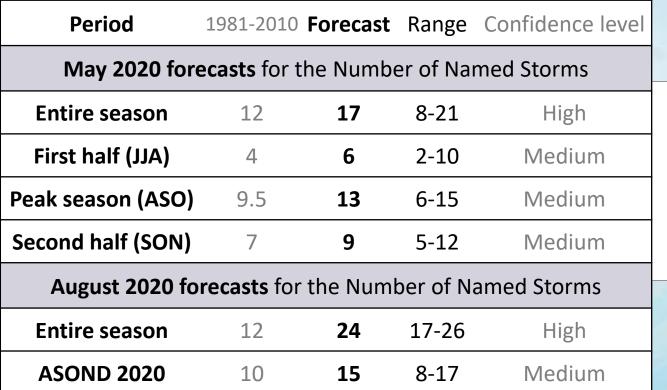
- The peak of the season is from August to October→ what will this period
 - → what will this period bring?
- CariCOF predicts 2 threemonth periods each month
 - → What could June to August and September to November look like?

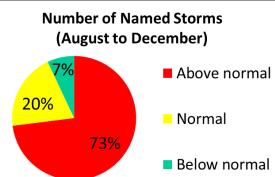


Source: Michael Lowry/FEMA



2020 Atlantic Hurricane Season Activity CIMH Experimental forecasts





NOTE

- Authorities and interests are advised to constantly monitor weather advisories issued by the National Meteorological Services.
- They should also constantly monitor other information provided by the Caribbean Disaster Emergency Management Agency (http://cdema.org/) and the US National Hurricane Center (https://www.nhc.noaa.gov/).
- All persons and entities should abide by any official advisories issued by the National Meteorological Service in their country.

DISCLAIMER

- ► CIMH is providing special weather interpretation of the current and forecasted tropical weather affecting the Caribbean region.
- ► CIMH is not an official forecasting authority.