From: <u>StormGeo</u>
To: <u>Lindsey Falconer</u>

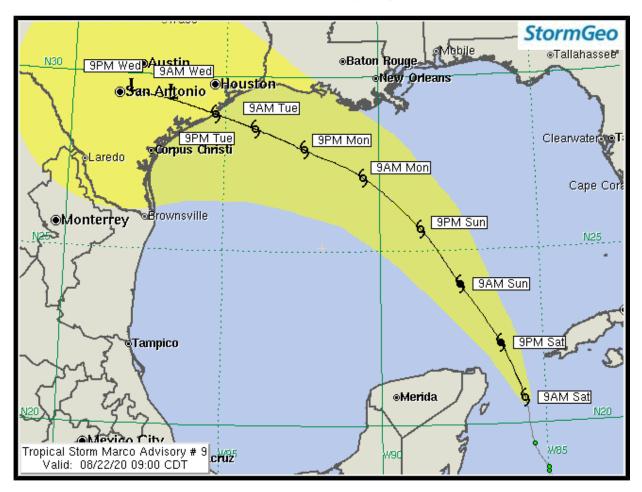
Subject: Tropical Storm Marco Advisory 9

Date: Saturday, August 22, 2020 8:42:37 AM



Tropical Storm Marco Advisory 9

Valid: 09:00 AM CDT Saturday August 22, 2020



Current Location: 20.7N, 85.6W

Geographic Reference: 80 Miles East of Cozumel, MX

Movement: North-northwest at 10 mph **Max Winds:** 65 mph gusting to 80 mph

Current Hurricane Severity Index: 5 out of a possible 50 points (2 size, 3 intensity)

Max Predicted Hurricane Severity Index: 8 out of a possible 50 points (3 size, 5

intensity)

Current Radius of Tropical Storm-Force Winds: 50 miles

Max Predicted Radius of Tropical Storm-Force Winds: 80 miles

Organizational Trend: Rapidly Strengthening

Forecast Confidence: Average
Estimated Central Pressure: 994 mb

Key Points

- 1. Marco is rapidly strengthening and may become a hurricane later today.
- 2. We expect Marco to be a weak tropical storm when it reaches the Texas coast Tuesday evening.

Our Forecast

A reconnaissance plane investigating Marco is finding that Marco is rapidly becoming better organized this morning as the upper-level trough and associated strong southwest winds aloft across the Gulf initially aid in Marco's outflow. This could allow Marco to reach hurricane intensity over the next 6-12 hours.. However, beyond 24 hours, the strong southwesterly winds aloft will transition into wind shear that should cause Marco to steadily weaken as it tracks toward the Texas coast on Monday.

We have made an eastward adjustment in the initial 48 hours of Marco's track to take into consideration its more east current location. The landfall point along the Texas coast has been adjusted a little to the south, taking Marco inland near Freeport Tuesday evening. Max sustained winds at landfall are predicted to be near 40 mph, but it is possible that Marco could be a little weaker or stronger at landfall. Because of the interaction of Marco with the westward-retreating trough, the intensity forecast is somewhat uncertain beyond the next 24 hours.

Though Marco will be slowing down as it nears Texas on Tuesday, models indicate that Marco may not have much moisture to work with as far as rainfall production. We are not expecting widespread heavy rain, but some locations could see up to 10 inches of rain from Marco.

Expected Impacts on Land

Yucatan: Power outages are possible for northern coastal Quintana Roo.

NW Gulf Coast: Possible heavy rains have the potential to cause street flooding at a

minimum. Power outages could also occur on the coast.

Expected Impacts Offshore

Squalls could reach the deepwater lease areas offshore Texas and western Louisiana by Sunday night or Monday morning. Sunday is likely to be the final day of good flying conditions. Winds of tropical storm force are forecast for the lease blocks offshore southeast Texas and southwest Louisiana.

The next forecast will be issued by 3 PM CDT

Meteorologist: Chris Hebert

Forecast Confidence: Average								Hurricane Severity Index		
Fcst Hour	Valid	Lat.	Lon.	Max Sustained Winds	Max Gusts	Category	Size	Intensity	Total	

0	9AM CDT Sat Aug 22	20.70N	85.60W	65 mph	80 mph	Tropical Storm	2	3	5
12	9PM CDT Sat Aug 22	22.30N	86.30W	75 mph	90 mph	Category 1	3	5	8
24	9AM CDT Sun Aug 23	24.00N	87.50W	75 mph	90 mph	Category 1	3	5	8
36	9PM CDT Sun Aug 23	25.60N	88.70W	70 mph	85 mph	Tropical Storm	2	4	6
48	9AM CDT Mon Aug 24	27.10N	90.50W	60 mph	75 mph	Tropical Storm	2	3	5
60	9PM CDT Mon Aug 24	27.90N	92.40W	50 mph	65 mph	Tropical Storm	1	2	3
72	9AM CDT Tue Aug 25	28.50N	94.00W	45 mph	60 mph	Tropical Storm	1	2	3
84	9PM CDT Tue Aug 25	28.90N	95.30W	40 mph	50 mph	Tropical Storm	1	1	2
96	9AM CDT Wed Aug 26	29.30N	96.80W	30 mph	40 mph	Tropical Depression	0	0	0
108	9PM CDT Wed Aug 26	29.50N	98.10W	30 mph	35 mph	Remnant Low	0	0	0

The yellow cone represents track error from the previous five years. Over the past five tropical cyclone seasons, the center of the storm tracked within the yellow cone 75% of the time. The cone does not represent the forecast uncertainty in the current advisory for this storm. In addition, strong winds, very high tides, large waves, and heavy rainfall can often extend well outside the yellow cone.

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