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Tropical Storm Michael Discussion Number 19
NWS National Hurricane Center Miami FL AL142018
500 AM EDT Thu Oct 11 2018

Surface observations and WSR-88D Doppler radar data indicate that Michael continues to weaken as the center moves through eastern Georgia, and based on these data the initial intensity is decreased to 45 kt. There is currently a small area of tropical-storm-force winds near the center, with a second area over the Atlantic well to the southeast of the center. Michael should continue to weaken for the next 12 h or so as the center moves through South Carolina and into North Carolina. After that time, the cyclone should start to intensify due to baroclinic forcing, and it is expected to become a gale- or storm-force extratropical low around the 24-h point. The new intensity forecast is an update of the previous forecast, and it leans heavily on global model guidance during the extratropical phase.

The initial motion is now 045/18. Michael will accelerate toward the northeast and east-northeast as it becomes further embedded in the mid-latitude westerlies. The new track forecast track is near the various consensus models and has no significant changes from the previous forecast.

Gale- to storm-force winds are expected over portions of the Mid-Atlantic coast as Michael exits the U.S. east coast and becomes post-tropical. Non-tropical high wind watches, warnings, and advisories have been issued by local NWS offices for wind hazards in these areas north of Duck, North Carolina.

Key Messages:

1. Heavy rainfall from Michael could produce life-threatening flash flooding over portions of Georgia, the Carolinas, and southeastern Virginia.
2. Tropical storm conditions will continue to affect portions of the southeast U.S. coast from Georgia through North Carolina, and tropical storm warnings remain in effect for these areas.

FORECAST POSITIONS AND MAX WINDS

INIT	11/0900Z	33.5N	82.5W	45 KT	50 MPH...INLAND
12H	11/1800Z	35.4N	79.4W	40 KT	45 MPH...INLAND
24H	12/0600Z	37.9N	74.1W	45 KT	50 MPH...POST-TROP/EXTRATROP
36H	12/1800Z	40.9N	65.8W	50 KT	60 MPH...POST-TROP/EXTRATROP
48H	13/0600Z	44.1N	55.0W	55 KT	65 MPH...POST-TROP/EXTRATROP
72H	14/0600Z	48.0N	29.5W	55 KT	65 MPH...POST-TROP/EXTRATROP
96H	15/0600Z	49.0N	9.0W	45 KT	50 MPH...POST-TROP/EXTRATROP
120H	16/0600Z	...DISSIPATED			

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