

TROPICAL UPDATE

5 PM EDT

Thursday, October 5, 2017

Tropical Storm Nate, Florida Low (near 0%) & Northeast Atlantic Low (20%)

This update is intended for government and emergency response officials, and is provided for informational and situational awareness purposes only. Forecast conditions are subject to change based on a variety of environmental factors. For additional information, or for any life safety concerns with an active weather event please contact your County Emergency Management or Public Safety Office, local National Weather Service forecast office or visit the National Hurricane Center website at www.nhc.noaa.gov.

Atlantic Basin Satellite Image





Five-Day Graphical Tropical Weather Outlook

National Hurricane Center Miami, Florida





Ø Post-Tropical Cyclone × Remnants

Upper Level & Surface Low in Gulf of Mexico pulls Nate northwestward as it moves west towards Texas

3

NDAH

Forecast Weather Map – Saturday night

Nate is forecast to move in between high pressure building into eastern Florida and a cold front moving into the Ohio/Mississippi Valleys. Non-tropical low pressure near Texas currently near the FL Keys) could also "tug" Nate towards Louisiana.



Sea Surface Temperatures





Nate Satellite





del Track Guidance

Tropical Storm NATE Model Intensity Guidance Initialized at 18z Oct 05 2017









Most Likely Arrival Time of Tropical-Storm-Force Winds





Earliest Reasonable Arrival Time of Tropical-Storm-Force Winds





Forecast Wind Swath

This assumes a perfect forecast and is only through the next 72 hours, but Nate is forecast to be a rather small storm. Rain bands with winds tropical storm force gusts will extend beyond the blue line.



Future Radar – Saturday 5pm



Outer rain bands from Nate could reach Florida Saturday evening.

Note: These are models simulations and subject to change.



SLOSH Maximum Water Level Estimates for Cat 1 hurricane moving NNE @ 15mph







Forecast Total Rainfall – Next 3 Days

Note: Does not account for locally 20.00 higher amounts, which could be higher 15.00 depending on exact track of Nate. Isolated totals could reach 3-5" in the 10.00 western Panhandle. 7.00 2.0П 5.00 4.003.00 2.50 2.00 1.75 1.50 1.25 1.00 0.75 2.13 0.50 0.25 0.100.01

Flash Flood Threat





Flood Watches are in effect for Brevard, Indian River, St. Lucie, Martin, Palm Beach, Broward and Miami-Dade Counties.

State Radar and Satellite as of 4:30pm EDT Thursday

(20:50 GMT)

Predominant Nighttime Weather



Sky: Partly Cloudy

ENE wind 5-10 mph inland, 10-20mph at the coast. Gusts to 25mph

Rain: 30-70% Peninsula/Keys

Low Temperatures: Low-Mid 70s (North/Central FL) Upper 70s (South FL)

<u>Hazards:</u> Occasional Lightning Brief Heavy Downpours

Predominant Daytime Weather - Friday



Sky: Mostly Cloudy statewide

E/SE wind 5-15mph, gusts 20 mph

Rain: 40-60% Peninsula/Keys, 20-40% Panhandle

High Temperatures: Mid- Upper 80s

<u>Hazards:</u> Breezy Winds Occasional Lightning Brief Heavy Downpours Summary:

- At 5 PM EDT Thursday, Tropical Storm Nate was located over eastern Honduras, or about 1,075 miles south of Tallahassee, Florida.
- Nate is moving north-northwest near 10mph, and this motion is expected to continue during the next couple of days with a further increase in forward speed.
- The center of Nate is forecast to emerge over the northwestern Caribbean Sea tonight, move near or over the northeastern part of the Yucatan Peninsula late Friday and into the Gulf of Mexico on Saturday.
- Landfall along the U.S. Gulf Coast is expected on Sunday.
- Maximum sustained winds are currently near 40mph, but Nate is expected to gradually strengthen as it moves back over the water, and become a hurricane in the Gulf of Mexico.
- Elsewhere, a non-tropical low pressure disturbance located over the Florida Straits will continue to increase rain chances across South Florida through Friday as it moves west.
- In addition, an area of low pressure is forecast to form over the northeastern Atlantic and could acquire some subtropical or tropical characteristics early next week while it remains nearly stationary.

Florida Outlook:

- Florida (with the exception of northwestern Escambia County) is now outside of the 3 day cone of error, but the chances for tropical storm force winds are still around 20-30% for much of the Florida Panhandle, which could arrive in gusts in the outer band of Nate Saturday evening or Sunday morning.
- There are currently no wind or surge watches for Florida, but could be issued late tonight or early Friday.
- Rainfall amounts of 1-3" (with isolated amounts up to 5" possible) is forecast for portions of the Florida Panhandle on Saturday and Sunday.
- Isolated tornadoes will also be possible Saturday and Sunday in the Panhandle.
- Breezy winds and increasing ocean swells will continue a high risk of rip currents along the entire Panhandle coast through this weekend.
- Breezy east winds combined with the lunar "King Tide" could have the potential to produce high waves and minor coastal flooding during high tide. Any locally heavy rainfall during times of high tide could exacerbate coastal flooding issues.
- A **Coastal Flood Advisory** is in effect from Miami-Dade to Volusia County, with a **Coastal Flood Warning** in effect for the St. Johns River and tributaries.

Another briefing packet will be issued Friday morning. For more information, visit the NHC website at <u>www.hurricanes.gov</u>.



TROPICAL UPDATE

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Florida Division of Emergency Management

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