

TROPICAL UPDATE

8 AM EDT

Thursday, September 1, 2016 Hurricane Gaston, Tropical Storm Hermine and Invest 92L (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

09:00 01-SEP-2016 GMT @Copyright WSI Corporation http://www.wsi.com



Tropical Storm Hermine 4AM CDT Thu Sep 01 2016 Position 26.4 N 86.6 W Maximum Winds 60 mph Gusts 70 mph Movement NNE-at 11 mph Minimum Pressure 996 mb (29.40 in ches)

Blue Marble basemap imagery courtesy NASA

Satellite 10351 AM UTC 5:51 AM CDT

wunderground.com

W.C.





Sustained Winds as of 400 AM CDT Thu Sep 1, 2016 Advisory Number 15









Weather Forecast for Thu, Sep 01, 2016, issued 4:32 AM EDT DOC/NOAA/NWS/NCEP/Weather Prediction Center Prepared by Mcreynolds based on WPC, SPC and NHC forecasts



Weather Forecast for Fri, Sep 02, 2016, issued 4:38 AM EDT Thu, Sep 01, 2016 DOC/NOAA/NWS/NCEP/Weather Prediction Center Prepared by Mcreynolds based on WPC, SPC and NHC forecasts



Weather Forecast for Sat, Sep 03, 2016, issued 4:42 AM EDT Thu, Sep 01, 2016 DOC/NOAA/NWS/NCEP/Weather Prediction Center Prepared by Mcreynolds based on WPC, SPC and NHC forecasts

Tropical Storm HERMINE Model Track Guidance

Initialized at 06z Sep 01 2016

Levi Cowan - tropicaltidbits.com



Tropical Storm HERMINE Model Intensity Guidance Initialized at 06z Sep 01 2016 Levi Cowan - tropicaltidbits.com



Sea Surface Temperatures Near TS Hermine



Current Wind Shear (shaded) and Shear Tendency (contours)









5% 10% 20% 30% 40% 50% 60% 70% 80%	90% 1	00%



5% 10%	20%	30%	40%	50%	60%	70%	80%	90%	100%



Wind Timing for Local Areas Only (31 items) (31 items) Meaning Of Report

This list represents wind arrival and departure details for select locations that are currently forecast to have tropical storm or greater winds during the next 72 This information is quite specific and is subject to large forecast errors. You should NOT use these wind forecasts until just before landfall, and hours.

Cautionary Note:

then only as a general indication of the expected wind patterns.

Location	34kt(39mph) 🔺	50kt(58mph)	64kt(74mph)	64ktEND(dur)	50ktEND(dur)	34ktEND(dur)	Peak Wind
FL Gulf	09/01 17E					09/02 03E [10]	44kt (51mph) 09/01 22E
FL Franklin	09/01 17E	09/01 23E	09/02 01E	09/02 02E [01]	09/02 02E [03]	09/02 05E [12]	64kt (74mph) 09/02 01E
FL Wakulla	09/01 18E	09/01 23E	09/02 01E	09/02 04E [03]	09/02 04E [05]	09/02 07E [13]	65kt (75mph) 09/02 02E
FL Liberty	09/01 18E	09/01 23E			09/02 01E [02]	09/02 05E [11]	54kt (62mph) 09/02 00E
FL Taylor	09/01 19E	09/01 23E	09/02 02E	09/02 04E [02]	09/02 07E [08]	09/02 09E [14]	64kt (74mph) 09/02 02E
FL Leon	09/01 19E	09/02 00E	09/02 03E	09/02 04E [01]	09/02 05E [05]	09/02 07E [12]	64kt (74mph) 09/02 02E
FL Jefferson	09/01 19E	09/02 00E	09/02 02E	09/02 04E [02]	09/02 06E [06]	09/02 09E [14]	65kt (75mph) 09/02 03E
FL Levy	09/01 20E	09/02 02E			09/02 04E [02]	09/02 08E [12]	51kt (59mph) 09/02 02E
FL Dixie	09/01 20E	09/02 00E			09/02 06E [06]	09/02 10E [14]	56kt (64mph) 09/02 02E
FL Calhoun	09/01 20E					09/02 01E [05]	37kt (43mph) 09/01 22E
FL Gadsden	09/01 20E					09/02 06E [10]	48kt (55mph) 09/02 02E
FL Bay	09/01 20E					09/01 22E [02]	35kt (40mph) 09/01 20E
FL Madison	09/01 20E	09/02 00E	09/02 03E	09/02 04E [01]	09/02 08E [08]	09/02 10E [14]	64kt (74mph) 09/02 03E
FL Lafayette	09/01 20E	09/02 01E			09/02 07E [06]	09/02 10E [14]	57kt (66mph) 09/02 03E
FL Gilchrist	09/01 21E	09/02 02E			09/02 05E [03]	09/02 10E [13]	51kt (59mph) 09/02 03E
FL Suwannee	09/01 21E	09/02 02E			09/02 08E [06]	09/02 11E [14]	55kt (63mph) 09/02 03E
FL Jackson	09/01 22E					09/02 02E [04]	35kt (40mph) 09/01 23E
FL Hamilton	09/01 22E	09/02 02E			09/02 09E [07]	09/02 12E [14]	56kt (64mph) 09/02 06E
FL Citrus	09/01 22E					09/02 05E [07]	41kt (47mph) 09/02 02E
FL Alachua	09/01 23E					09/02 10E [11]	46kt (53mph) 09/02 04E
FL Columbia	09/01 23E	09/02 06E			09/02 09E [03]	09/02 12E [13]	50kt (58mph) 09/02 06E
FL Marion	09/02 00E					09/02 08E [08]	40kt (46mph) 09/02 03E
FL Union	09/02 00E					09/02 11E [11]	46kt (53mph) 09/02 04E
FL Baker	09/02 01E					09/02 13E [12]	48kt (55mph) 09/02 08E
FL Hemando	09/02 01E					09/02 02E [01]	35kt (40mph) 09/02 01E
FL Bradford	09/02 01E					09/02 12E [11]	44kt (51mph) 09/02 05E
FL Duval	09/02 03E					09/02 14E [11]	42kt (48mph) 09/02 07E
FL Clay	09/02 03E					09/02 12E [09]	42kt (48mph) 09/02 07E
FL Putnam	09/02 03E					09/02 10E [07]	38kt (44mph) 09/02 04E
FL Nassau	09/02 03E					09/02 14E [11]	45kt (52mph) 09/02 10E
FL St Johns	09/02 05E					09/02 12E [07]	38kt (44mph) 09/02 08E

A storm surge warning indicates there is a danger of lifethreatening inundation from rising water moving inland from the shoreline somewhere within the specified area, generally within 36 hours.

Lynn Haven e

Panama

Tallahassee

Dark Gray Canvas

> Palm Goast

Davton

Gainesville

Esri HERE DeLorme

lonida

Homosassa

Springs

Clearwater

The water could reach the following heights above ground if the peak surge occurs at the time of high tide...

Destin to Indian Pass...1 to 3 feet Indian Pass to Chassahowitzka...4 to 7 feet Chassahowitzka to Aripeka...2 to 4 feet Aripeka to Bonita Beach...including Tampa Bay...1 to 3 feet Florida-Georgia line to Cape Fear...1 to 3 feet

> Prototype Storm Surge Warning Prototype Storm Surge Watch



30km _____ 20mi

Intertidal Zone/Estuarine Wetland Greater than 1 foot above ground Greater than 3 feet above ground Greater than 6 feet above ground Greater than 9 feet above ground

HERE, DeLorme, NGA, USG

Imagery with Labels

iorina



Current Rainfall Forecast



Forecast Rainfall Total – Next 3 Days



☆ Tour Guide

















4pm



Hurricane Gaston 5 AM EDT Thu Sep 01 2016 Position 36.8 N 43.3 W Maximum Winds 90 mph Gusts 115 mph Movement ENE at 19 mph Minimum Pressure 977 mb (28.84 in ches)

Blue Marble basemap imagery courtesy NASA

Satellite 11:26 AM UTC 7:26 AM EDT

wunderground.com





Two-Day Graphical Tropical Weather Outlook

National Hurricane Center Miami, Florida





Current Disturbances and Two-Day Cyclone Formation Chance: 🗱 < 40% 🗱 40-60% 🗰 > 60% Tropical or Sub-Tropical Cyclone: O Depression 🥑 Storm 🍠 Hurricane & Post-Tropical Cyclone × Remnants



Five-Day Graphical Tropical Weather Outlook

National Hurricane Center Miami, Florida





Tropical Cyclone Formation Potential for the Five-Day Period Ending at 8:00 am EDT Tue Sep 6 2016 Chance of Cyclone Formation in Five Days: Low < 40% Medium 40-60% High > 60% X indicates current disturbance location; shading indicates potential formation area.

Summary:

- At 5am EDT Thursday, the center of Tropical Storm Hermine was located about 275 miles south of Fort Walton Beach, or approximately 285 miles west of Cape Coral, Florida.
- Hermine is now moving north-northeast around 12mph. This motion is expected to continue along with a faster forward movement through Friday.
- Maximum sustained winds have increased to 60 mph with higher gusts. Additional strengthening is forecast during the next 24 hours and is forecast to be a hurricane tonight just prior to landfall.
- There is still a little uncertainty in regards to the location and timing of landfall. The current official forecast shows a potential landfall near Panacea around 2am Friday as a Category 1 hurricane.
- Tropical-storm-force winds extend outward up to 140 miles to the east of the center.
- Elsewhere, Gaston is now a Category 1 hurricane with winds of 85 mph and will continue moving east-northeast into the northeastern Atlantic.
- Tropical Depression #8 has dissipated.
- Further east, a broad area of low pressure and tropical wave located over the far eastern Atlantic near the Cabo Verde Islands, designated as Invest 92L, continues to produce only limited shower activity. This wave is expected to be in an unfavorable environment for the next few days, which should prevent development. Environmental conditions could become a little more conducive for some development when the wave is near the Lesser Antilles early next week. The National Hurricane Center is forecasting only a 20% chance of development within the next 5 days.

Florida Outlook:

- A Hurricane Watch is in effect for coastal areas of Walton, Bay, Levy, Citrus, Hernando and Pasco Counties.
- A Hurricane Warning is in effect for Gulf, Franklin, Wakulla, Liberty, Gadsden, Leon, Jefferson, Madison, Taylor, and coastal Dixie counties.
- A **Tropical Storm Warning** is in effect for Walton, Bay, Holmes, Jackson, Calhoun, Lafayette, inland Dixie, Levy, Citrus, Hernando, Pasco, Hamilton, Suwannee, Columbia, Baker, Gilchrist, Alachua, Bradford, Union, Nassau, Duval, Clay and St. Johns Counties.
- A **Storm Surge Warning** is in effect for coastal areas between Indian Pass and Aripeka (Franklin through Hernando Counties).
- Flash Flood Watches and Flood Watches are in effect for much of North and West Central Florida.
- **River Flood Warnings** have been issued for many West Florida rivers and creeks.
- Areas of the Gulf Coast (between Sarasota and Mexico Beach) and the northern Peninsula generally north of I-4 currently have a greater than 1 in 3 chance of receiving sustained tropical storm force winds within the next 2 days. Chances for hurricane force winds between 5% and 10% in the Florida Big Bend.
- Tropical storm force gusts could occur in heavy bands in advance of the storm, with sustained winds arriving in the warning area this evening and spreading northeast through Friday morning.
- Storm surge heights up to 7 feet are expected along the Big Bend and northern Nature Coast and could produce surge flooding of greater than 3 feet above ground in the surge warning area. A stronger storm than currently forecast could produce surge heights up to 9 feet if peak surge occurs at high tide.
- A high threat of rip currents is expected to continue for many Florida beaches into the weekend.
- Heavy rain will also be a threat as rainfall totals both ahead of the system and directly associated with Hermine could produce storm total rainfall amounts up to 5-10", with locally higher amounts up to 20 inches possible. Highest amounts will be near the coast.
- Isolated tornadoes will also be possible with the outer bands of Hermine. There is a slight risk of severe weather through tonight for much of North and Central Florida and Tornado Watches may be posted sometime today.



TROPICAL UPDATE

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State Meteorological Support Unit Florida Division of Emergency Management

Another briefing packet will be issued Thursday afternoon. For more information on this system, please visit the NHC website at <u>www.nhc.noaa.gov</u> Users wishing to subscribe (approval pending) to this distribution list, register at <u>https://public.govdelivery.com/accounts/FLDEM/subscriber/new?topic_id=SERT_Met_Tropics</u> Other reports available for subscription are available at <u>https://public.govdelivery.com/accounts/FLDEM/subscriber/new?preferences=true</u>