



TROPICAL UPDATE

5 PM EDT

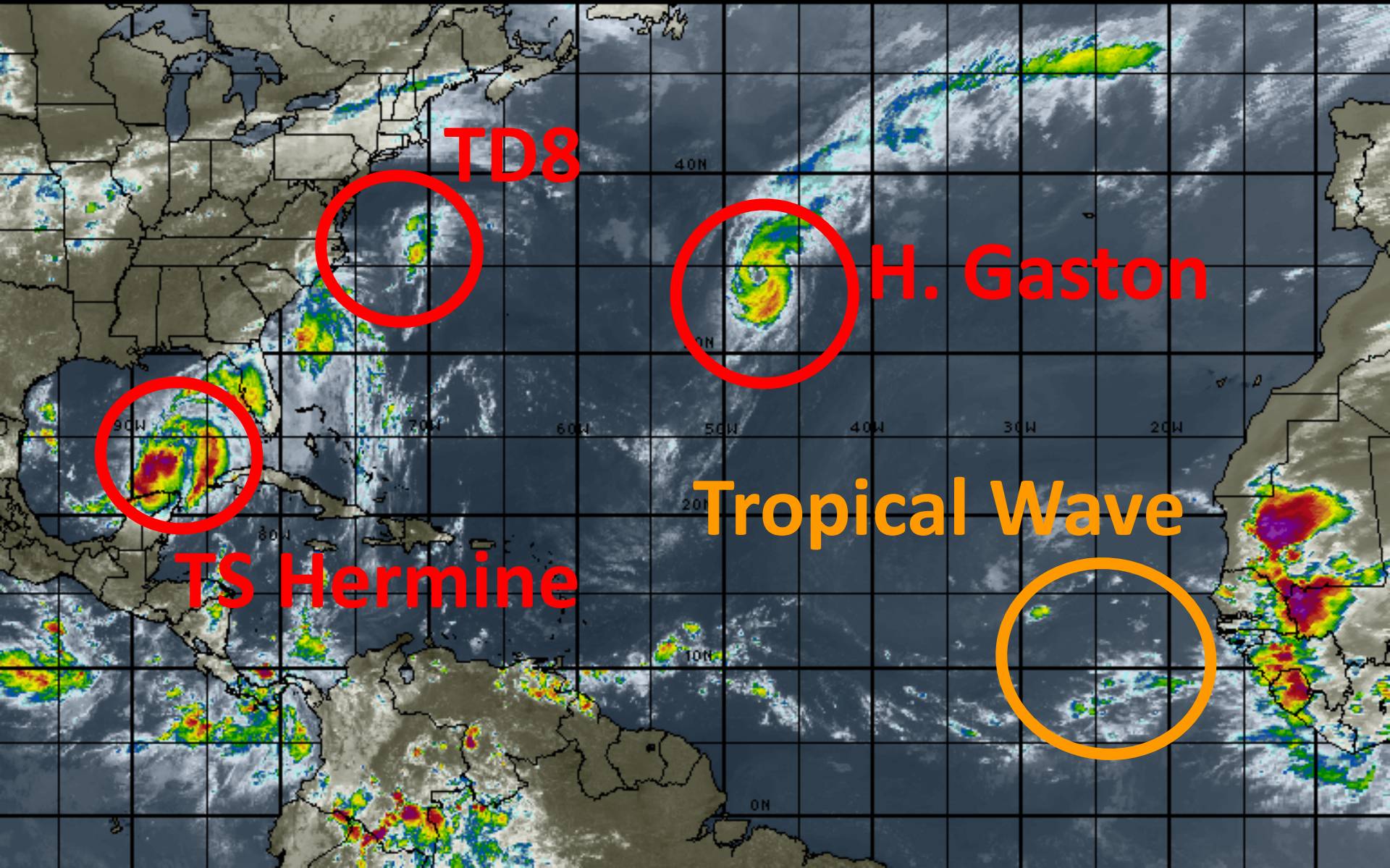
Wednesday, August 31, 2016

**Hurricane Gaston, Tropical Depression 8,
Tropical Storm Hermine and Invest 92L (30%)**

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

18:00 31-AUG-2016 GMT ©Copyright MSI Corporation <http://www.usi.com>



Tropical Storm Hermine

4PM CDT Wed Aug 31 2016

Position 25.5 N 87.4 W

Maximum Winds 45 mph

Gusts 55 mph

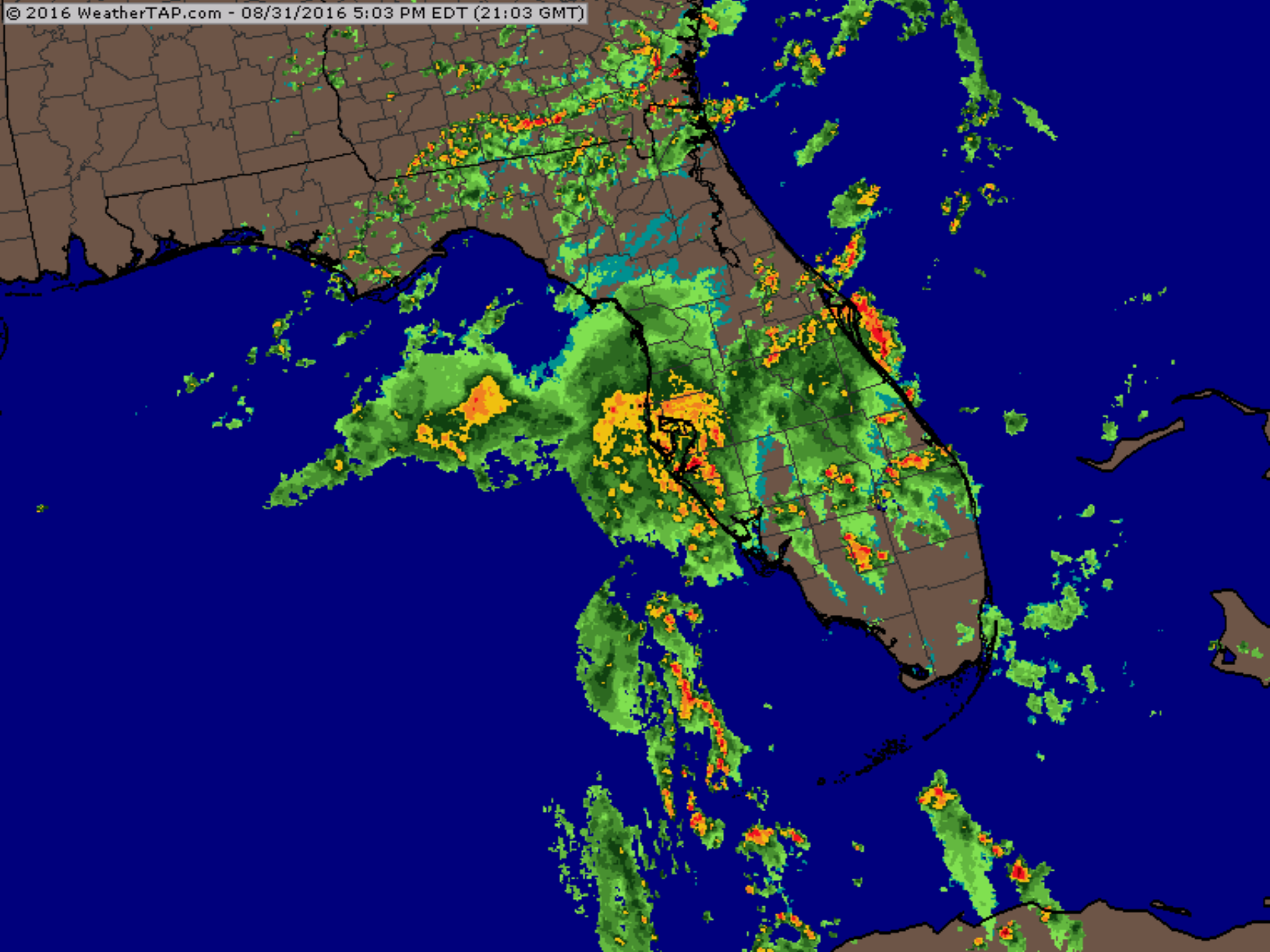
Movement NNE at 6 mph

Minimum Pressure 1004 mb (29.64 inches)

Blue Marble basemap imagery courtesy NASA

Satellite 8:52 PM UTC
3:52 PM CDT

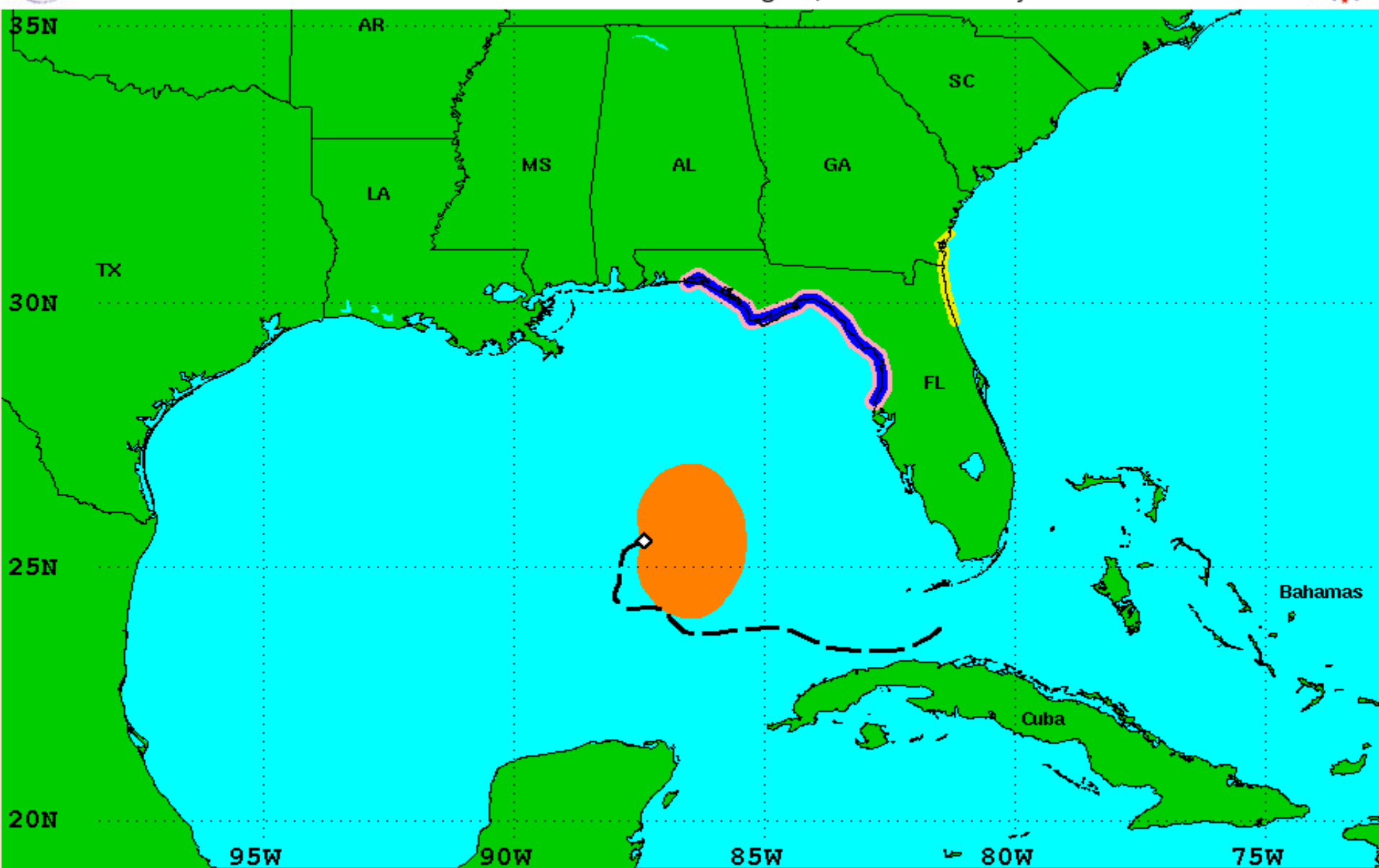






Surface Wind Field of Tropical Storm Hermine

Sustained Winds as of 400 PM CDT Wed Aug 31, 2016 Advisory Number 13



Watches:

- Hurricane Watch
- Tropical Storm Watch

Warnings:

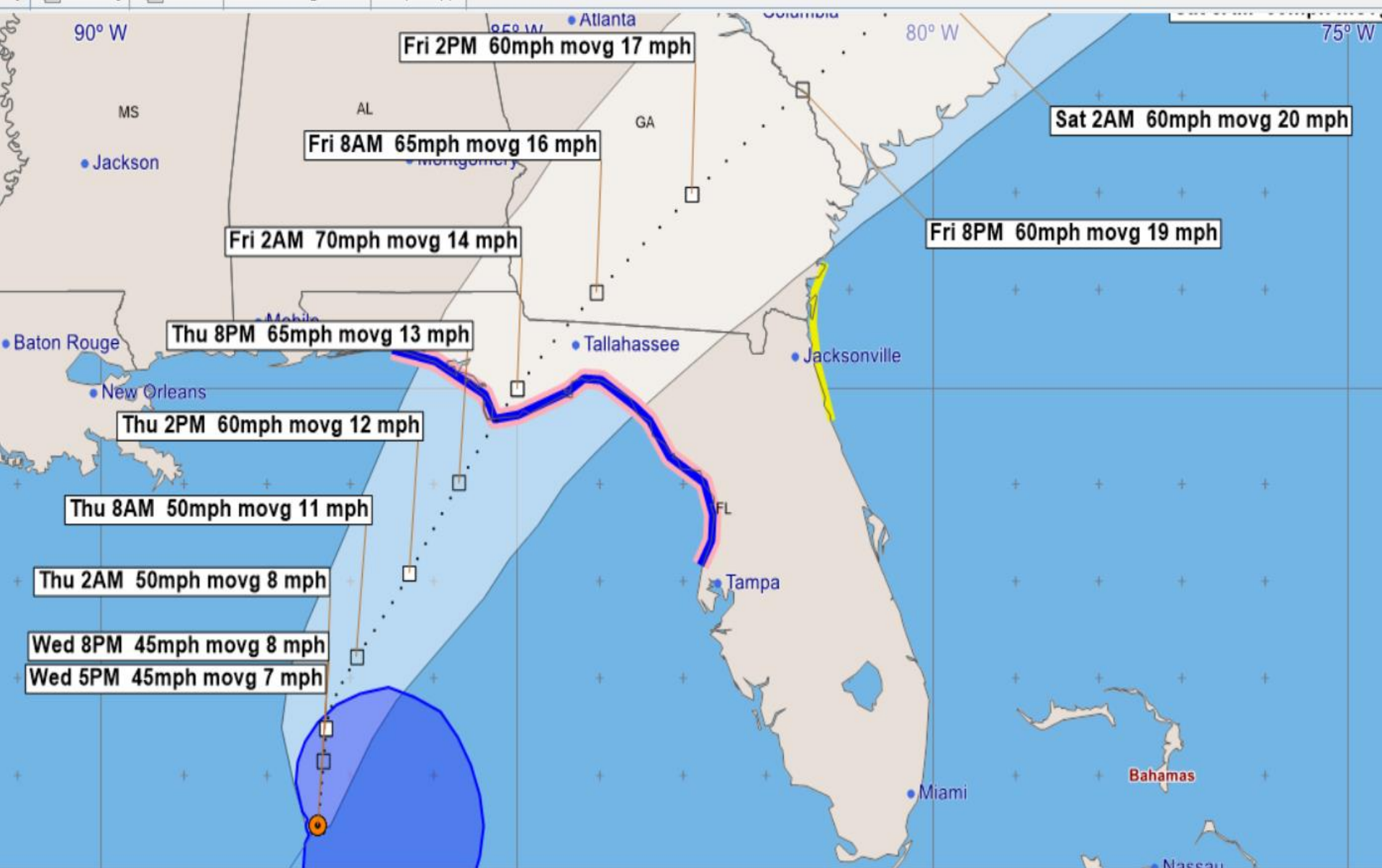
- Hurricane Warning
- Tropical Storm Warning

Sustained Winds:

- Hurricane Force
- Tropical Storm Force

Position:

- Center as of 400 PM CDT
- Past Track



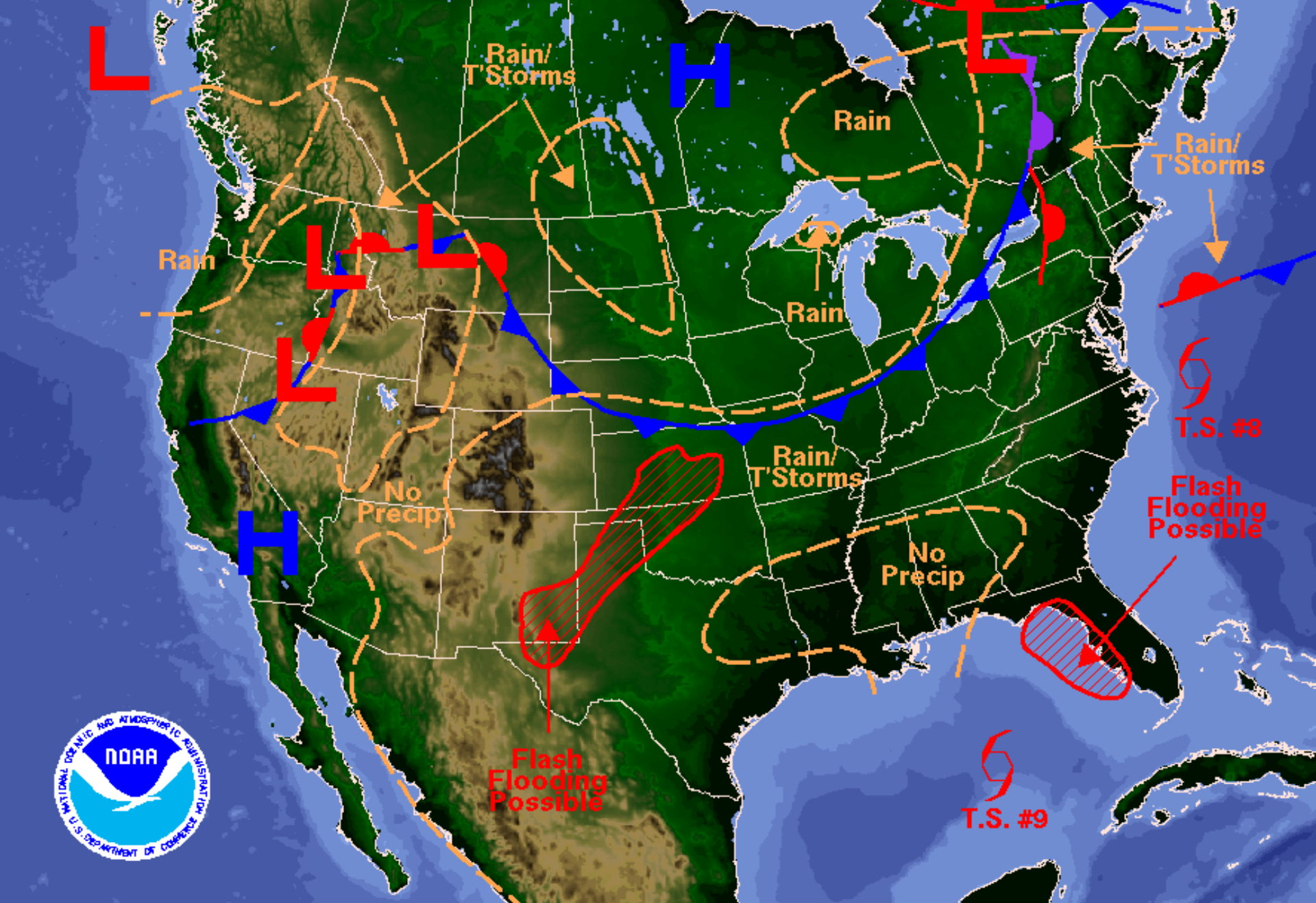
Tropical Storm Hermine - Wednesday, August 31, 2016 5 PM EDT Advisory #13

Center Location: 25.5 N 87.4 W Maximum Sustained Winds: 45 mph Movement: 7 mph NNE

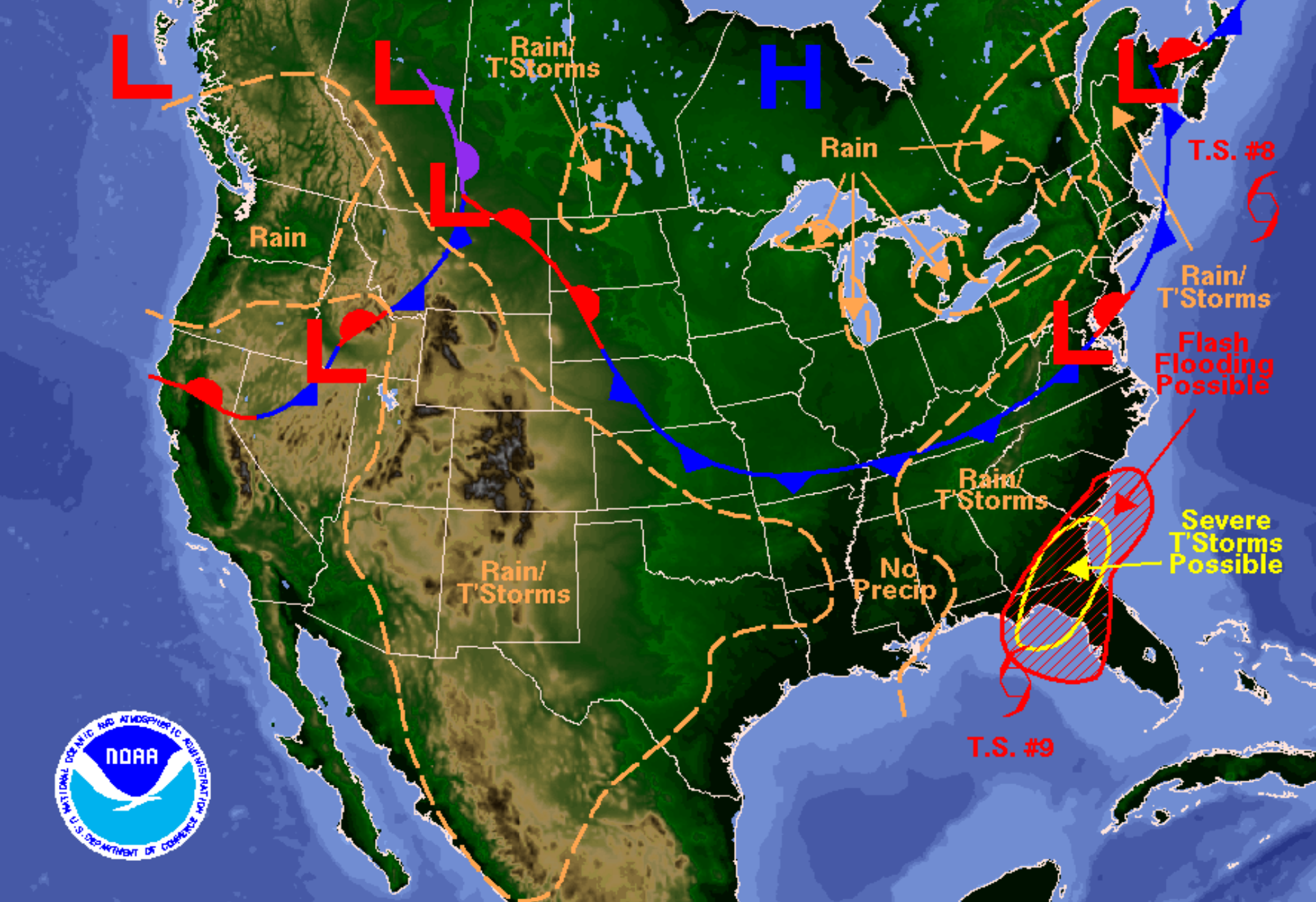
forecast positions Potential Track Area: day 1-3 day 4-5 Surface Wind Field: at current location

Watches: hurricane tropical storm Warnings: hurricane tropical storm

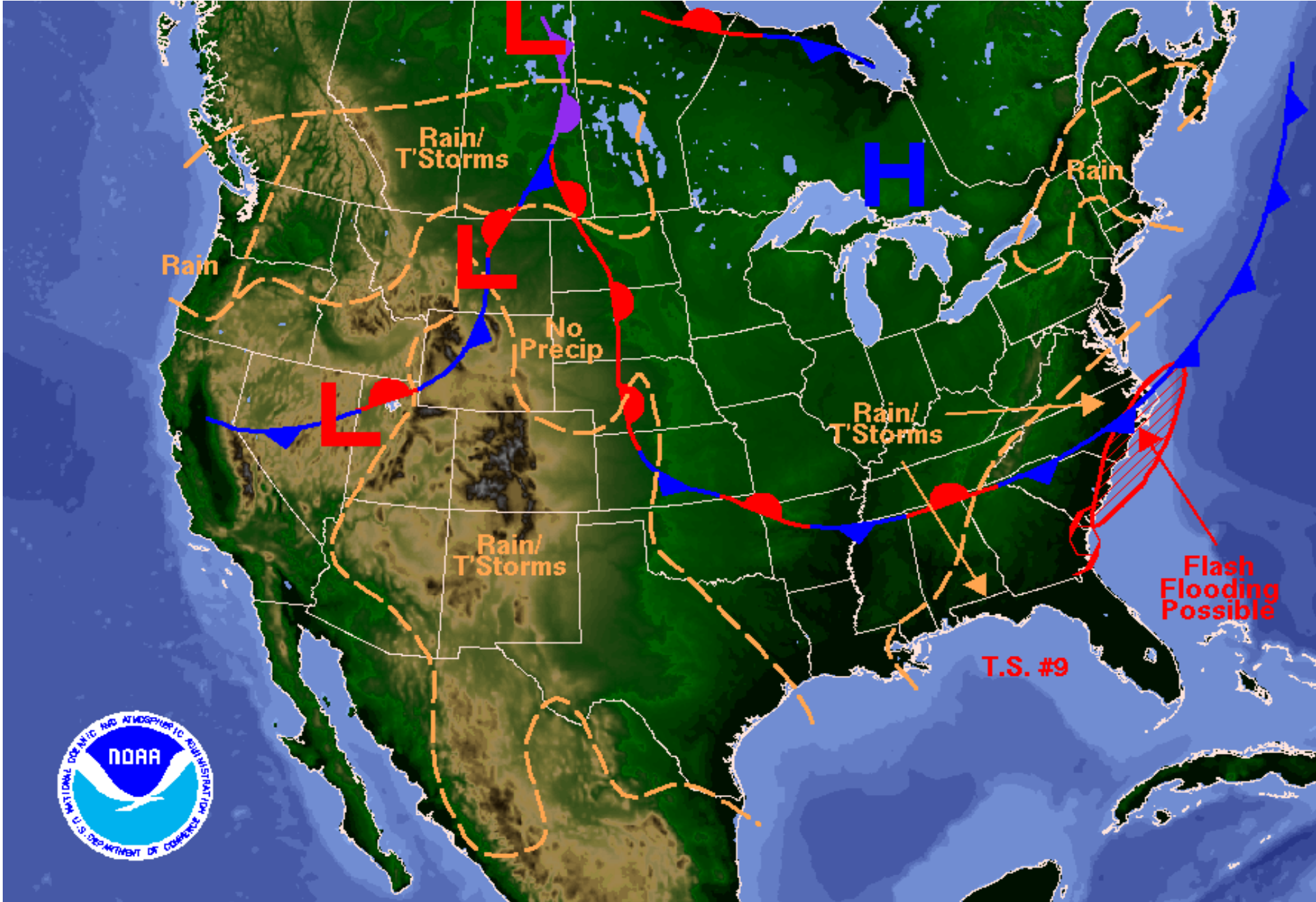
Sustained Wind Speeds: tropical storm ≥ 34 kt/39mph strong tropical storm ≥ 50 kt/58mph hurricane ≥ 64 kt/74mph



Weather Forecast for Wed, Aug 31, 2016, issued 4:37 AM EDT
DOC/NOAA/NWS/NCEP/Weather Prediction Center
Prepared by McCreynolds based on WPC, SPC and NHC forecasts



Weather Forecast for Thu, Sep 01, 2016, issued 4:43 AM EDT Wed, Aug 31, 2016
DOC/NOAA/NWS/NCEP/Weather Prediction Center
Prepared by McCreynolds based on WPC, SPC and NHC forecasts

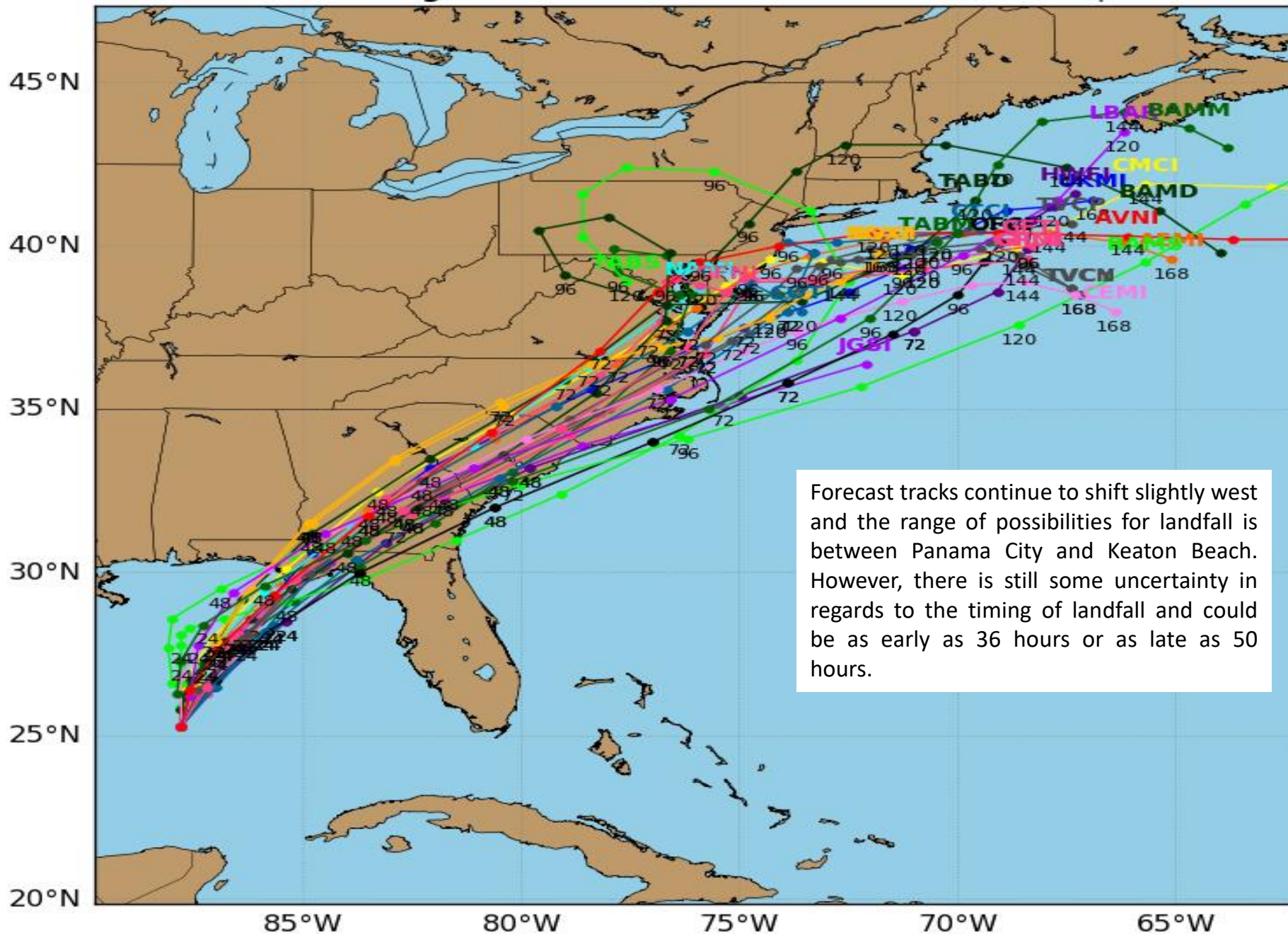


Weather Forecast for Fri, Sep 02, 2016, issued 7:50 AM EDT Wed, Aug 31, 2016
DOC/NOAA/NWS/NCEP/Weather Prediction Center
Prepared by mcreynolds based on WPC, SPC and NHC forecasts

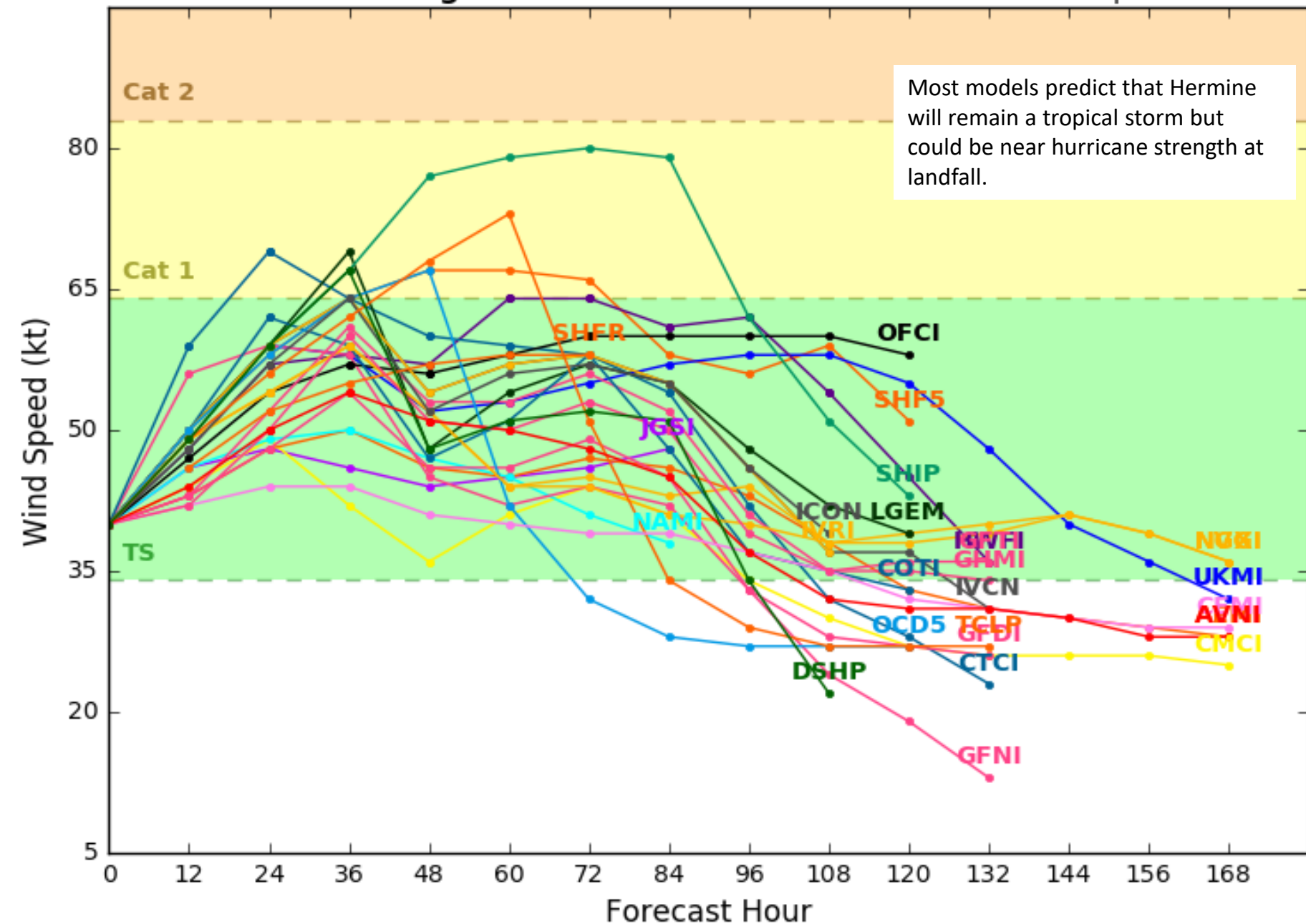
Tropical Storm HERMINE Model Track Guidance

Initialized at 18z Aug 31 2016

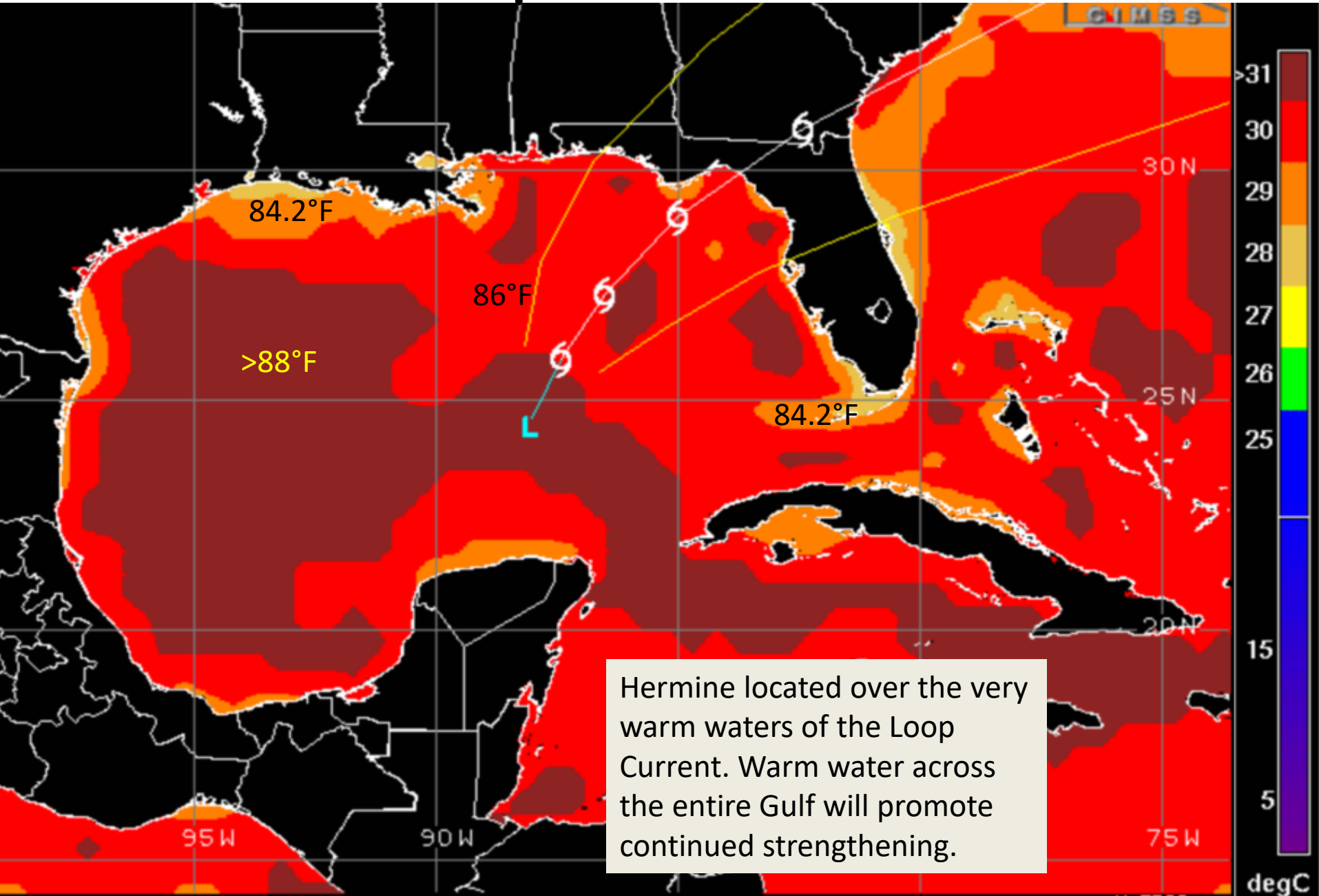
Levi Cowan - tropicaltidbits.com



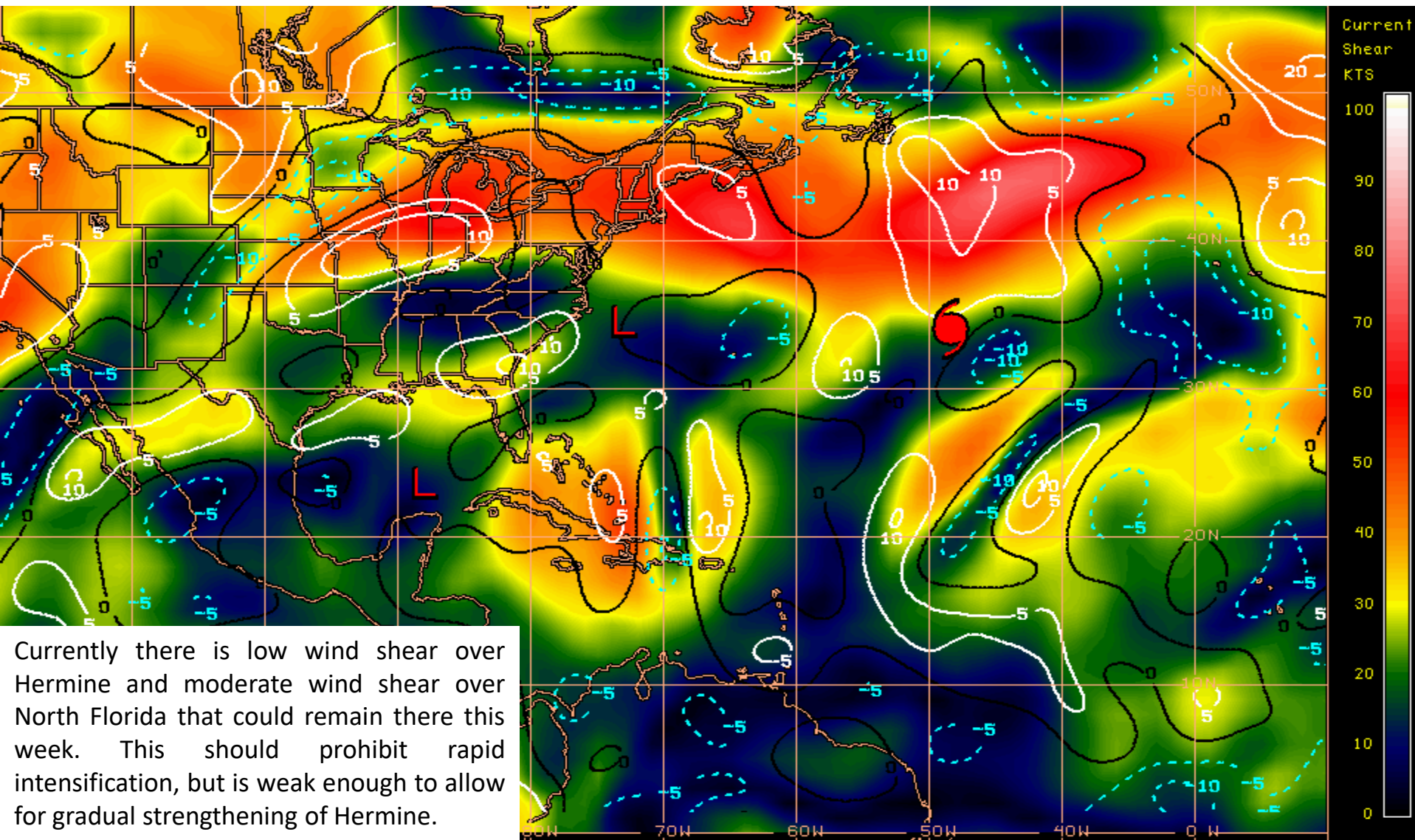
Levi Cowan - tropicaltidbits.com



Sea Surface Temperatures Near TS Hermine



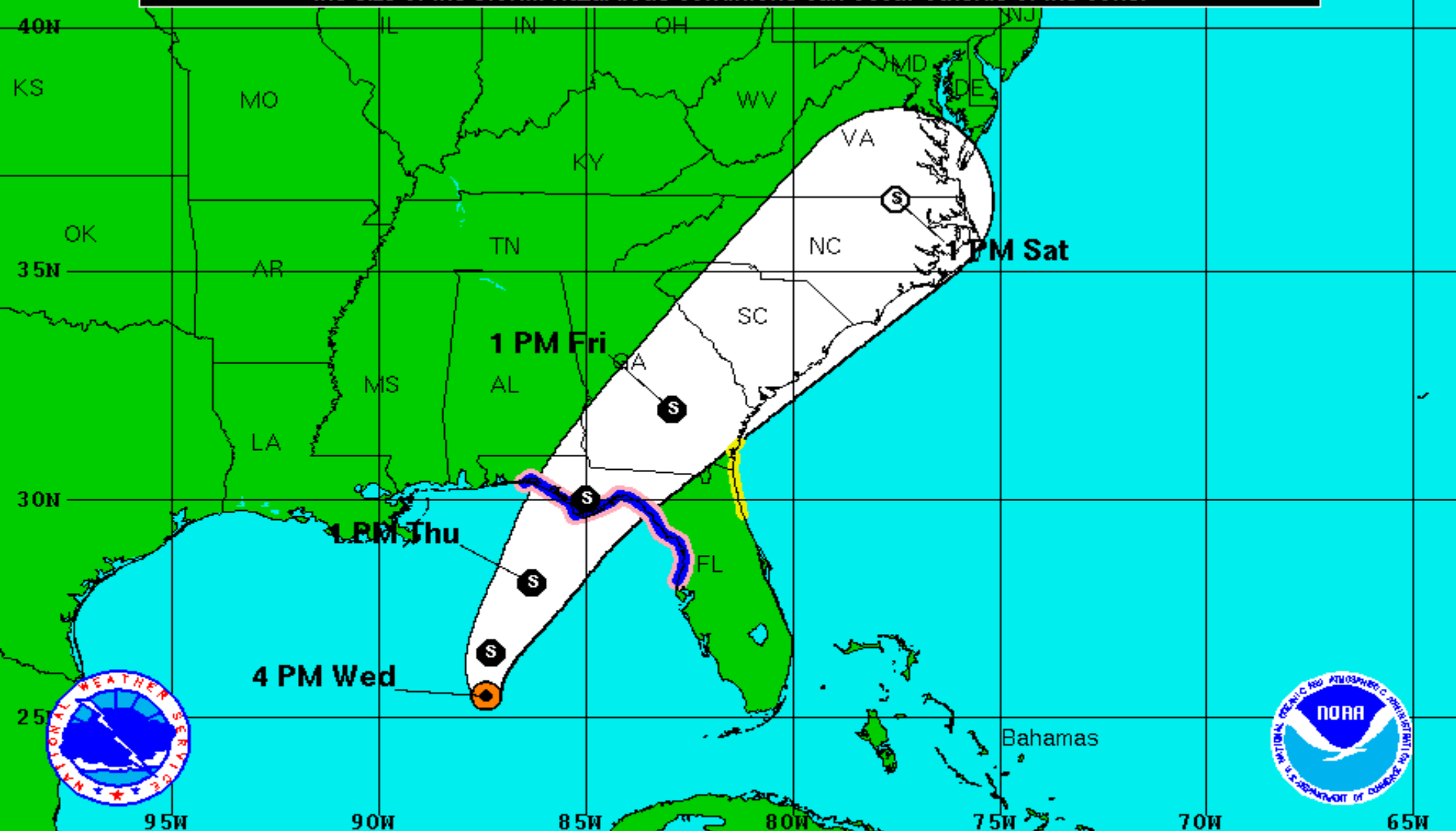
Current Wind Shear (shaded) and Shear Tendency (contours)




Currently there is low wind shear over Hermine and moderate wind shear over North Florida that could remain there this week. This should prohibit rapid intensification, but is weak enough to allow for gradual strengthening of Hermine.



Shear Tendency (KTS) Over Past 24 Hours: Increasing — Decreasing ----

Note: The cone contains the probable path of the storm center but does not show the size of the storm. Hazardous conditions can occur outside of the cone.



Tropical Storm Hermine
 Wednesday August 31, 2016
 4 PM CDT Advisory 13
 NWS National Hurricane Center

Current Information: 
 Center Location 25.5 N 87.4 W
 Max Sustained Wind 45 mph
 Movement NNE at 7 mph

Forecast Positions:
 Tropical Cyclone  Post-Tropical
 Sustained Winds: D < 39 mph
 S 39-73 mph H 74-110 mph M > 110mph

Potential Track Area:



Day 1-3

Watches:

 Hurricane  Trop.Storm

Warnings:

 Hurricane  Trop.Storm



TROPICAL STORM HERMINE

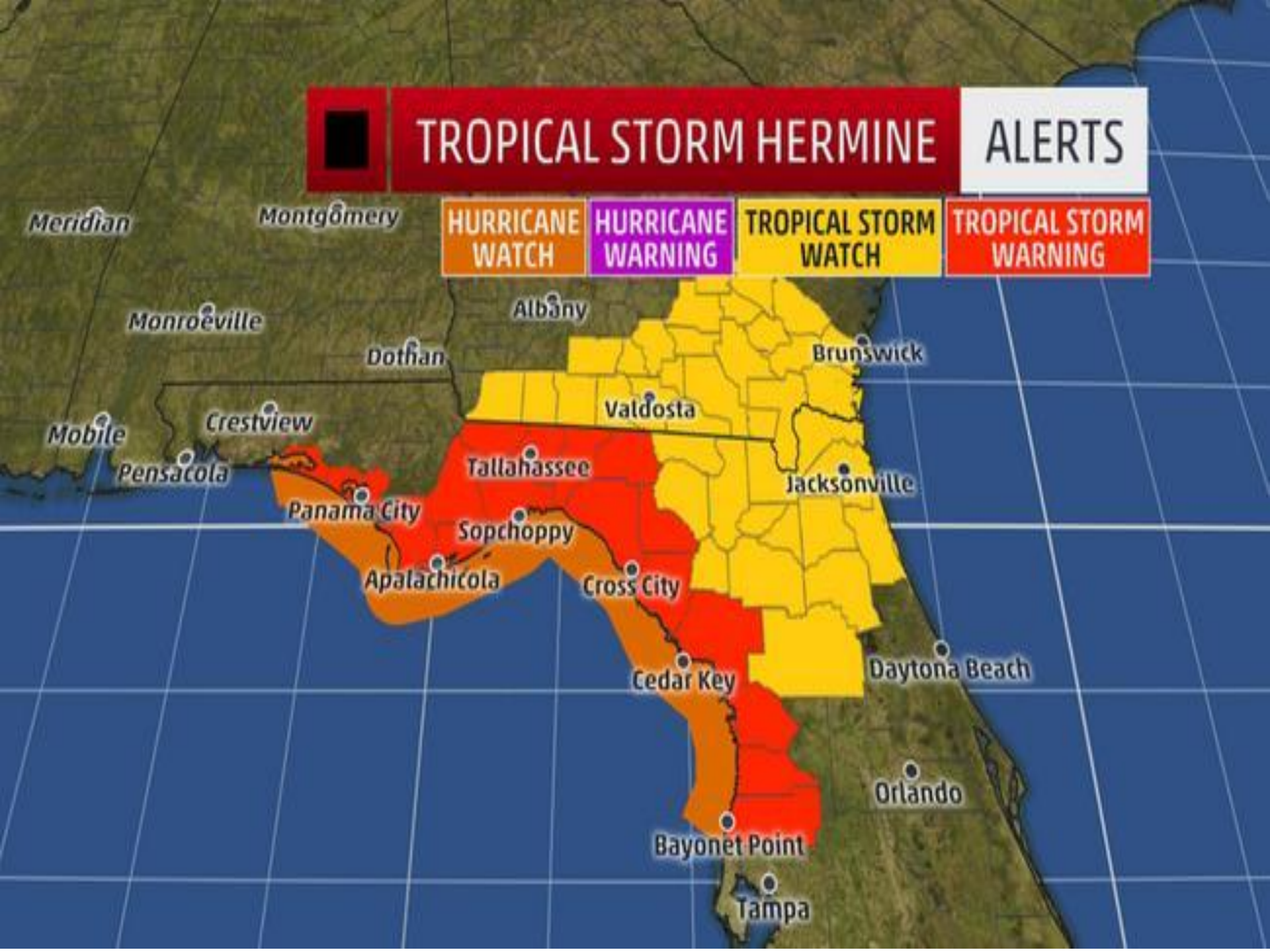
ALERTS

HURRICANE
WATCH

HURRICANE
WARNING

TROPICAL STORM
WATCH

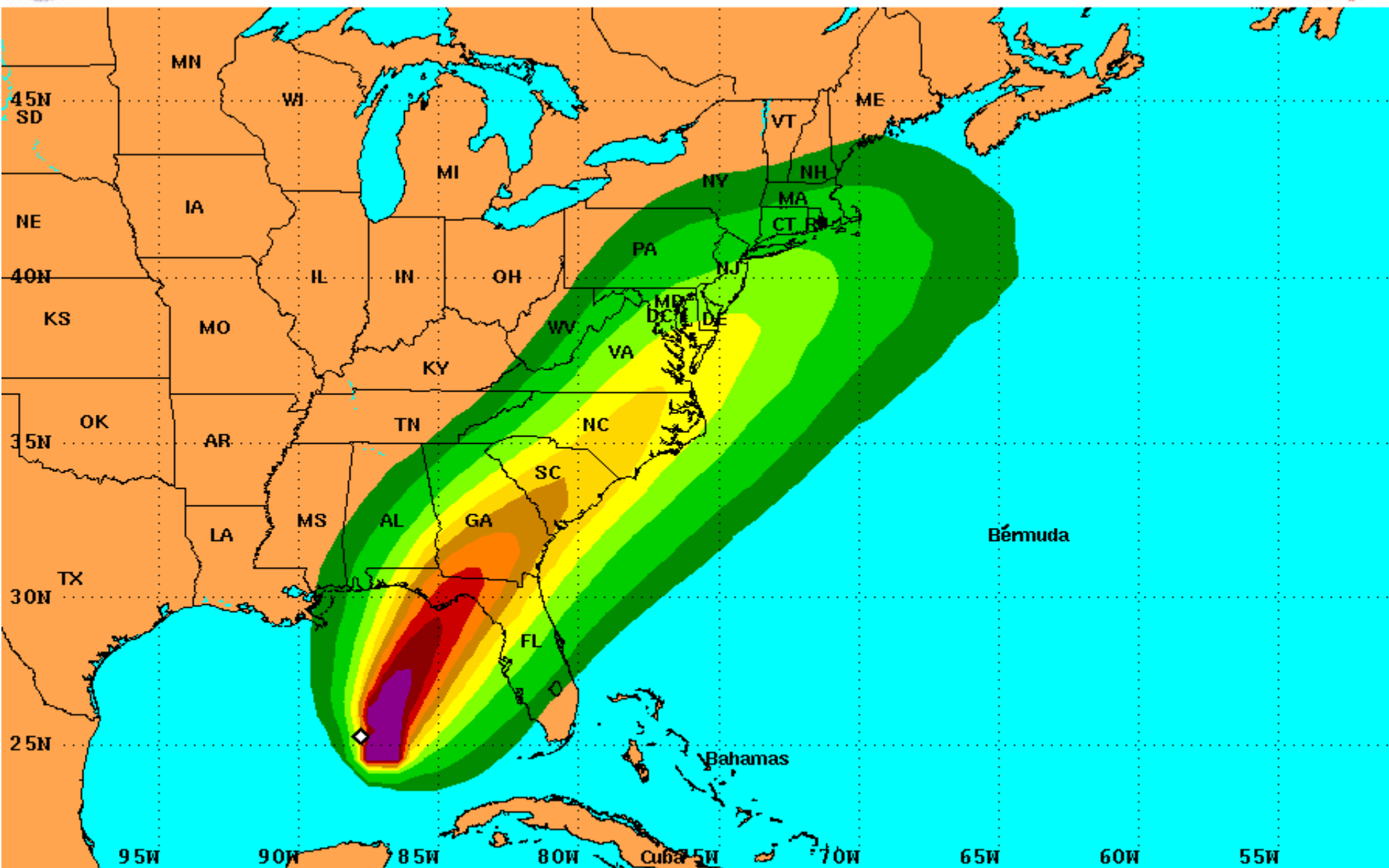
TROPICAL STORM
WARNING





PRELIMINARY (SINGLE STORM) Tropical Storm Force Wind Speed Probabilities

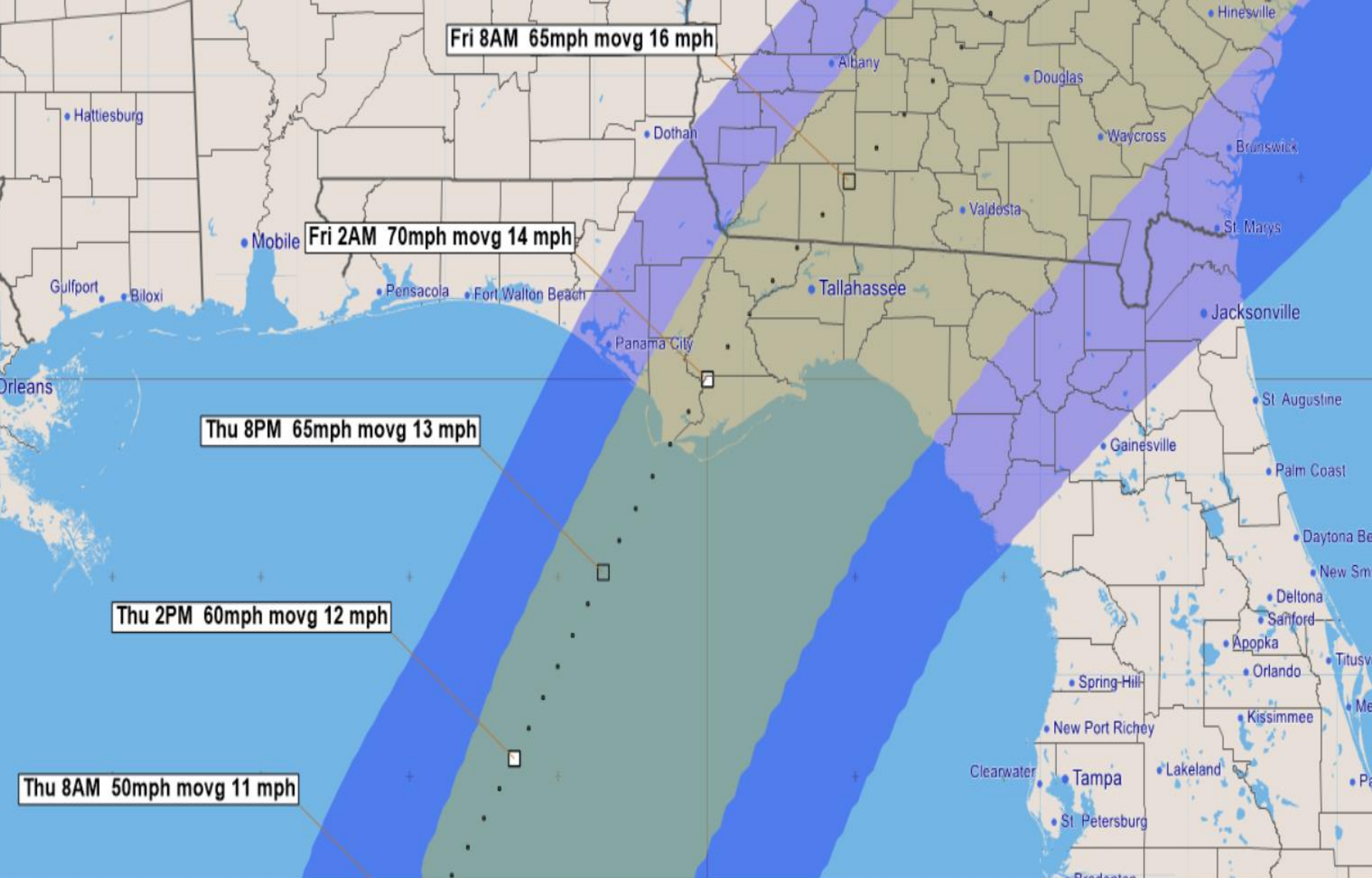
For the 120 hours (5 days) from 2 PM EDT Wed Aug 31 to 2 PM EDT Mon Sep 5



Probability of sustained tropical storm force surface winds (1-minute average of 39 mph or greater)

◇ indicates TROPICAL STORM HERMINE center location at 2 PM EDT Wed Aug 31 2016 (Forecast/Advisory #13)





Tropical Storm Hermine - Wednesday, August 31, 2016 5 PM EDT Advisory #13

Center Location: 25.5 N 87.4 W Maximum Sustained Winds: 45 mph Movement: 7 mph NNE

forecast positions Surface Wind Field: at current location along 3-day forecast track

Sustained Wind Speeds: tropical storm >= 34kt/39mph strong tropical storm >= 50kt/58mph hurricane >= 64kt/74mph

Wind Timing for Local Areas Only (20 ktms) (20 ktms) (20 ktms) (20 ktms)

Meaning Of Report

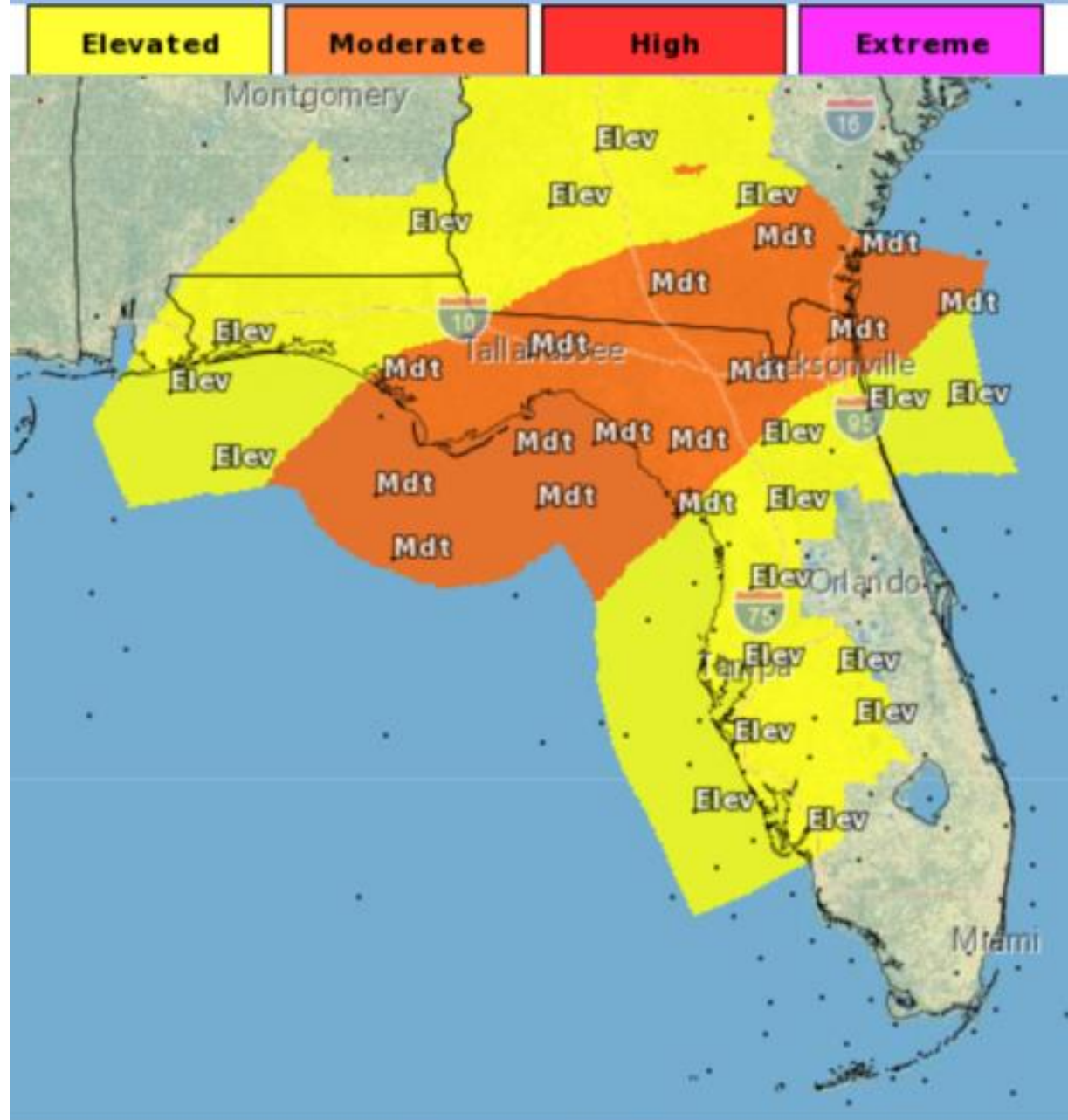
This list represents wind arrival and departure details for select locations that are currently forecast to have tropical storm or greater winds during the next 72 hours.

Cautionary Note:

This information is quite specific and is subject to large forecast errors. You should NOT use these wind forecasts until just before landfall, and then only as a general indication of the expected wind patterns.

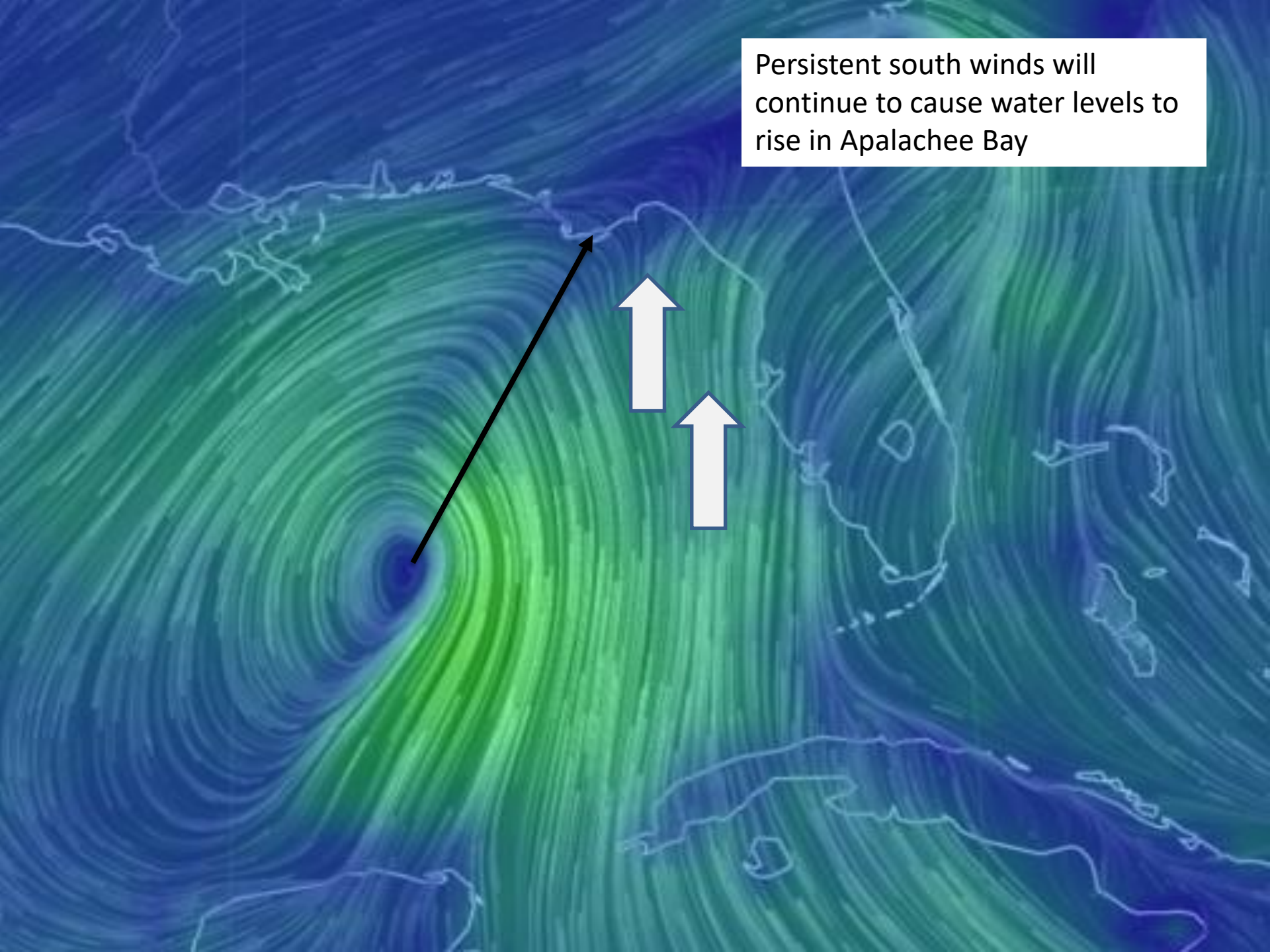
Location	34kt(39mph) ▲	50kt(58mph)	64kt(74mph)	64ktEND(dur)	50ktEND(dur)	34ktEND(dur)	Peak Wind
FL Gulf	09/01 15E	09/01 20E			09/02 04E [08]	09/02 04E [13]	60kt (69mph) 09/02 01E
FL Franklin	09/01 16E	09/01 20E			09/02 06E [10]	09/02 07E [15]	60kt (69mph) 09/02 01E
FL Liberty	09/01 17E	09/01 22E			09/02 06E [08]	09/02 07E [14]	60kt (69mph) 09/02 02E
FL Calhoun	09/01 18E	09/01 23E			09/02 04E [05]	09/02 06E [12]	54kt (62mph) 09/02 01E
FL Bay	09/01 18E	09/01 22E			09/02 01E [03]	09/02 04E [10]	51kt (59mph) 09/01 23E
FL Wakulla	09/01 19E	09/01 23E			09/02 08E [09]	09/02 09E [14]	59kt (68mph) 09/02 04E
FL Washington	09/01 20E					09/02 03E [07]	40kt (46mph) 09/02 01E
FL Gadsden	09/01 20E	09/02 00E			09/02 08E [08]	09/02 08E [12]	60kt (69mph) 09/02 05E
FL Leon	09/01 20E	09/02 00E			09/02 09E [09]	09/02 10E [14]	60kt (69mph) 09/02 05E
FL Jefferson	09/01 21E	09/02 01E			09/02 11E [10]	09/02 11E [14]	56kt (64mph) 09/02 05E
FL Jackson	09/01 21E	09/02 02E			09/02 04E [02]	09/02 06E [09]	52kt (60mph) 09/02 03E
FL Taylor	09/01 21E	09/02 01E			09/02 10E [09]	09/02 12E [15]	54kt (62mph) 09/02 04E
FL Madison	09/01 23E	09/02 03E			09/02 12E [09]	09/02 13E [14]	54kt (62mph) 09/02 05E
FL Dixie	09/01 23E					09/02 11E [12]	49kt (56mph) 09/02 06E
FL Lafayette	09/02 00E	09/02 05E			09/02 10E [05]	09/02 12E [12]	51kt (59mph) 09/02 07E
FL Suwannee	09/02 01E	09/02 06E			09/02 11E [05]	09/02 13E [12]	51kt (59mph) 09/02 08E
FL Levy	09/02 01E					09/02 09E [08]	41kt (47mph) 09/02 05E
FL Hamilton	09/02 02E	09/02 06E			09/02 12E [06]	09/02 14E [12]	51kt (59mph) 09/02 07E
FL Gilchrist	09/02 02E					09/02 12E [10]	44kt (51mph) 09/02 06E
FL Columbia	09/02 03E	09/02 09E			09/02 12E [03]	09/02 15E [12]	50kt (58mph) 09/02 08E
FL Alachua	09/02 04E					09/02 11E [07]	42kt (48mph) 09/02 08E
FL Union	09/02 05E					09/02 13E [08]	43kt (49mph) 09/02 08E
FL Baker	09/02 05E					09/02 15E [10]	49kt (56mph) 09/02 10E
FL Bradford	09/02 06E					09/02 13E [07]	39kt (45mph) 09/02 08E
FL Nassau	09/02 07E					09/02 16E [09]	47kt (54mph) 09/02 12E
FL Clay	09/02 08E					09/02 13E [05]	39kt (45mph) 09/02 10E
FL Duval	09/02 08E					09/02 16E [08]	42kt (48mph) 09/02 12E

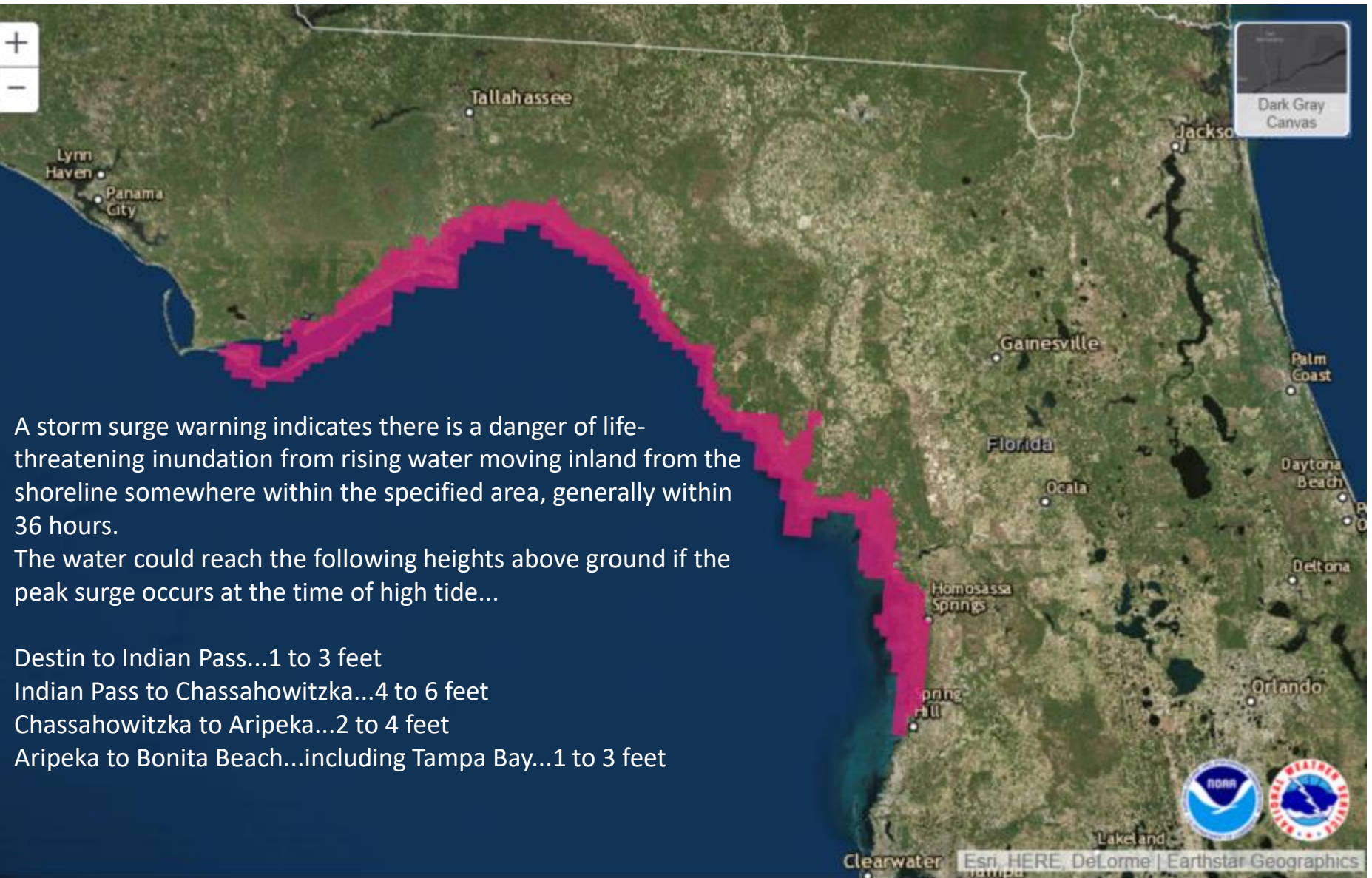
- Elevated- The potential for winds equal to or greater than 39 mph and less than 58 mph.
- Moderate – the potential for winds equal to or greater than 58 mph and less than 74 mph.



Hurricane Wind Threat
Through: Fri, Sep 2 2016, 8 PM EDT
Issued: Aug 31 at 10 AM EDT

Persistent south winds will
continue to cause water levels to
rise in Apalachee Bay



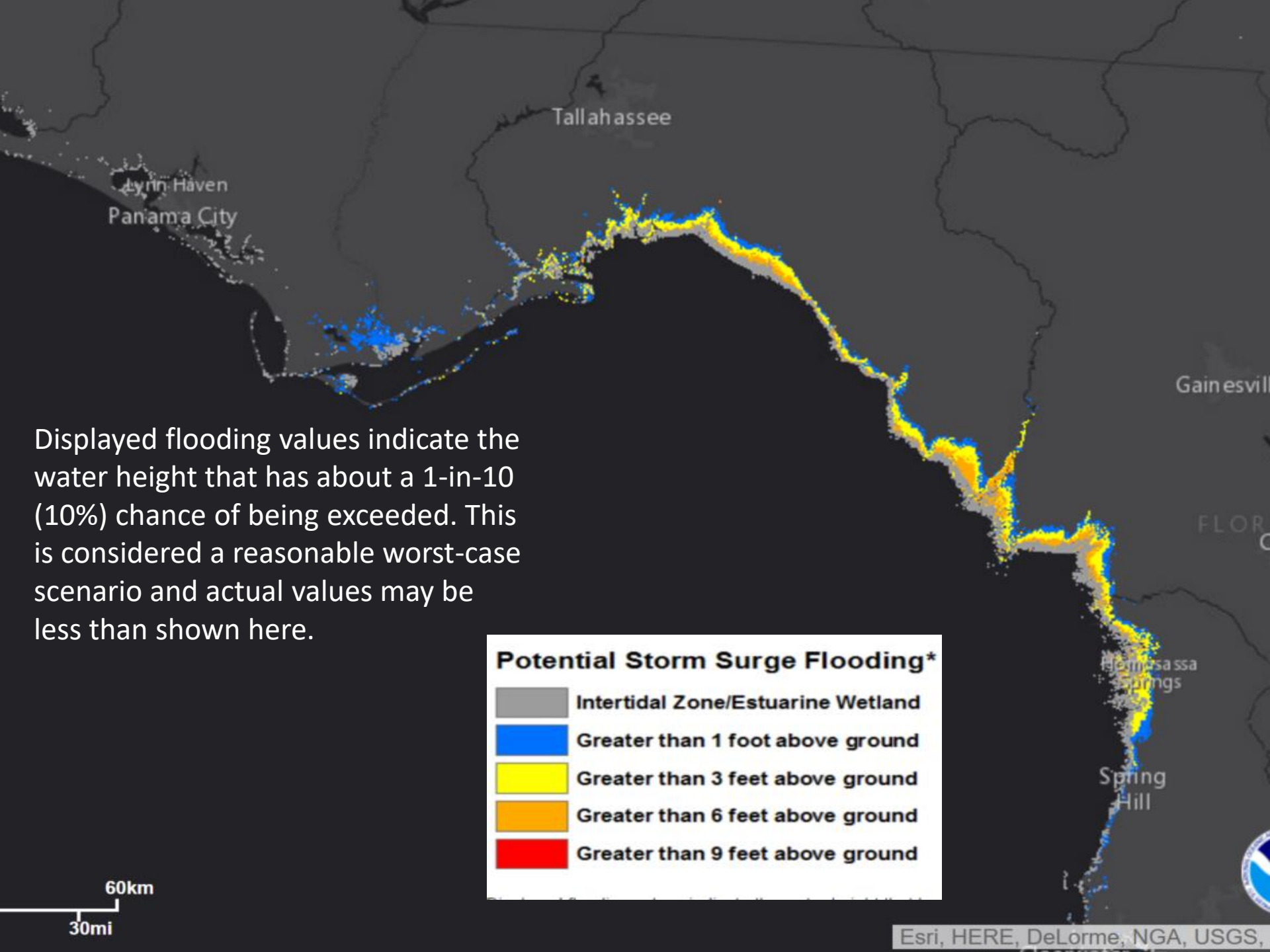


Dark Gray
Canvas

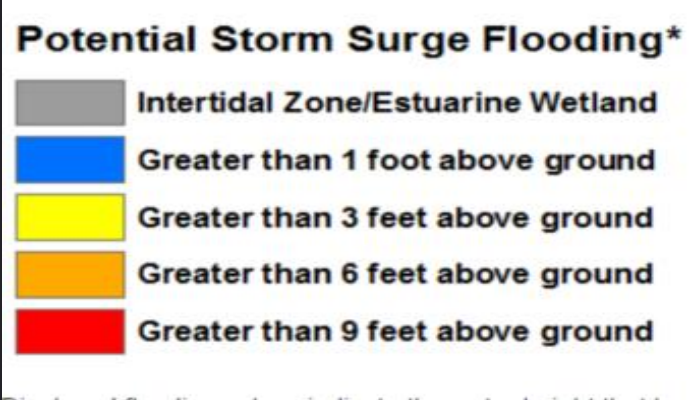


Prototype Storm Surge Warning
Prototype Storm Surge Watch

15 30mi



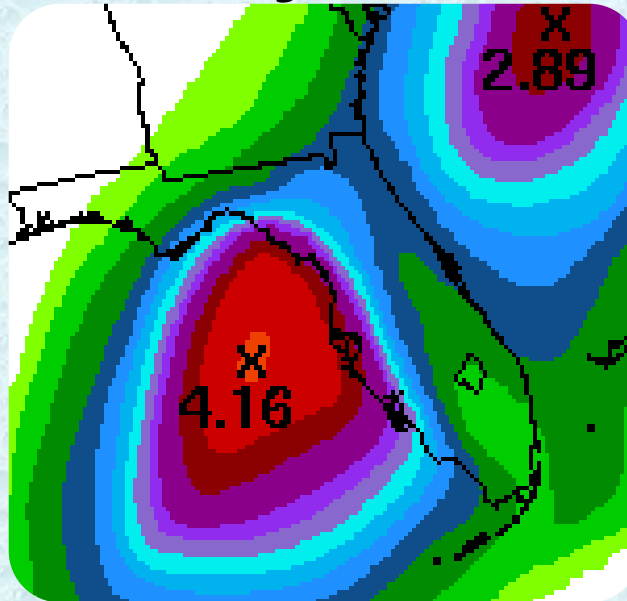
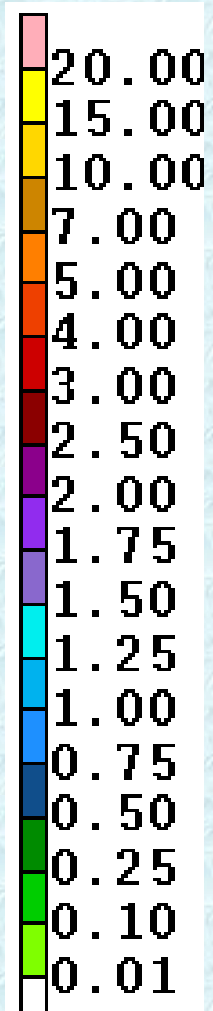
Displayed flooding values indicate the water height that has about a 1-in-10 (10%) chance of being exceeded. This is considered a reasonable worst-case scenario and actual values may be less than shown here.



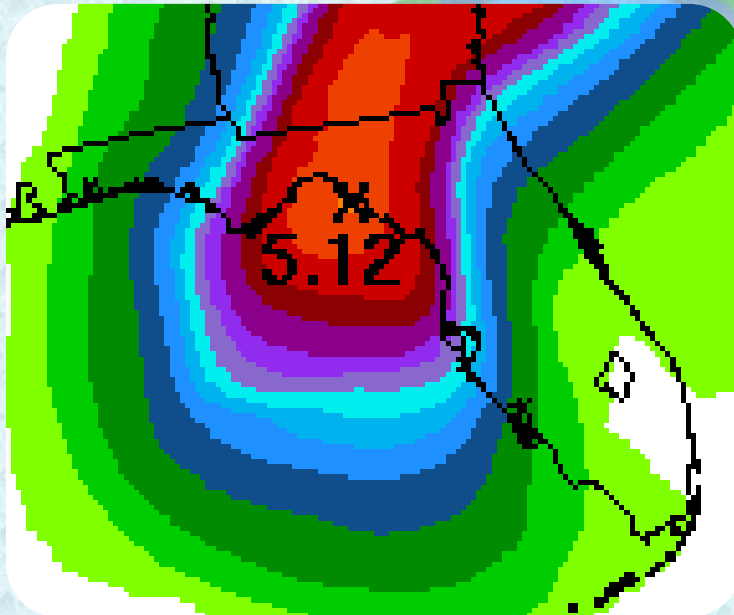
Observed Rainfall Past 3 Days



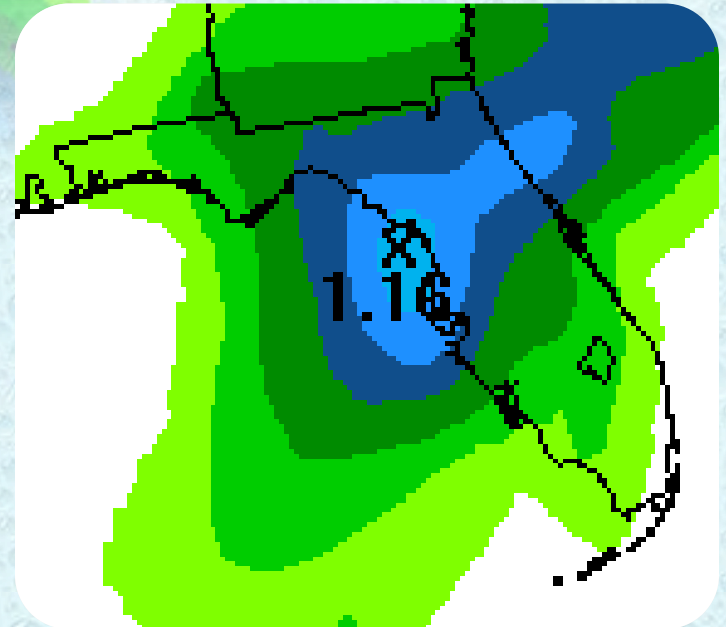
Current Rainfall Forecast



Wednesday

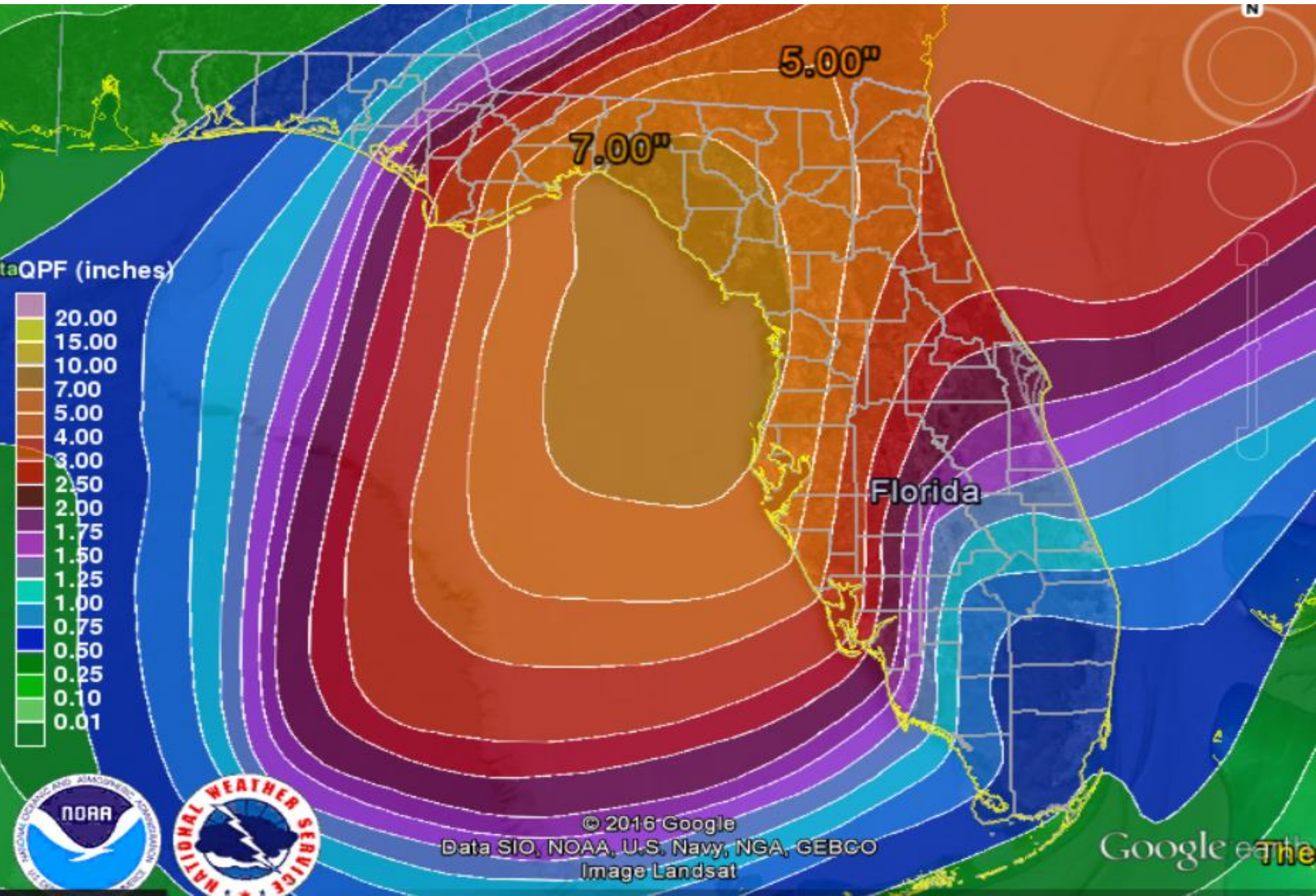


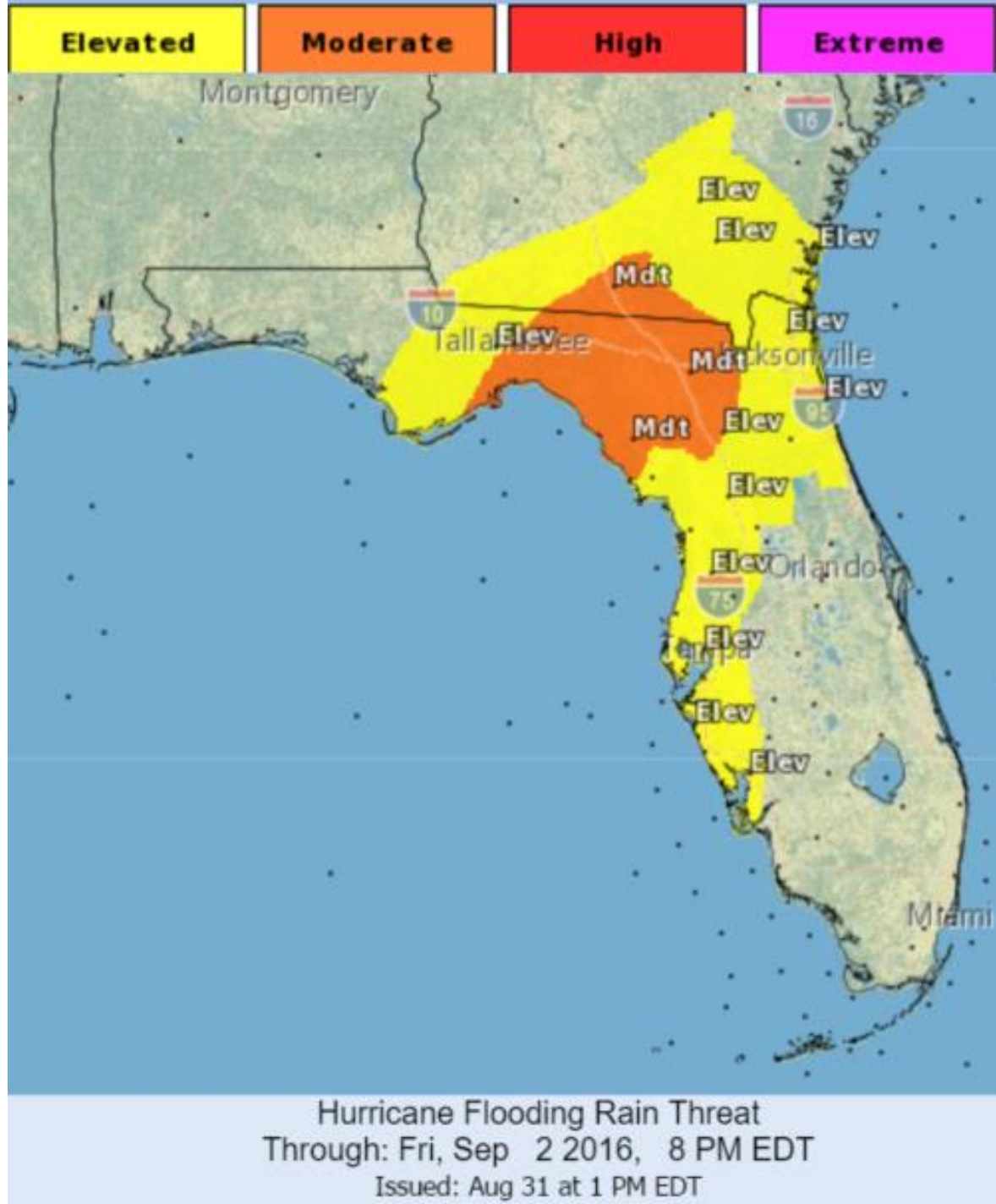
Thursday



Friday

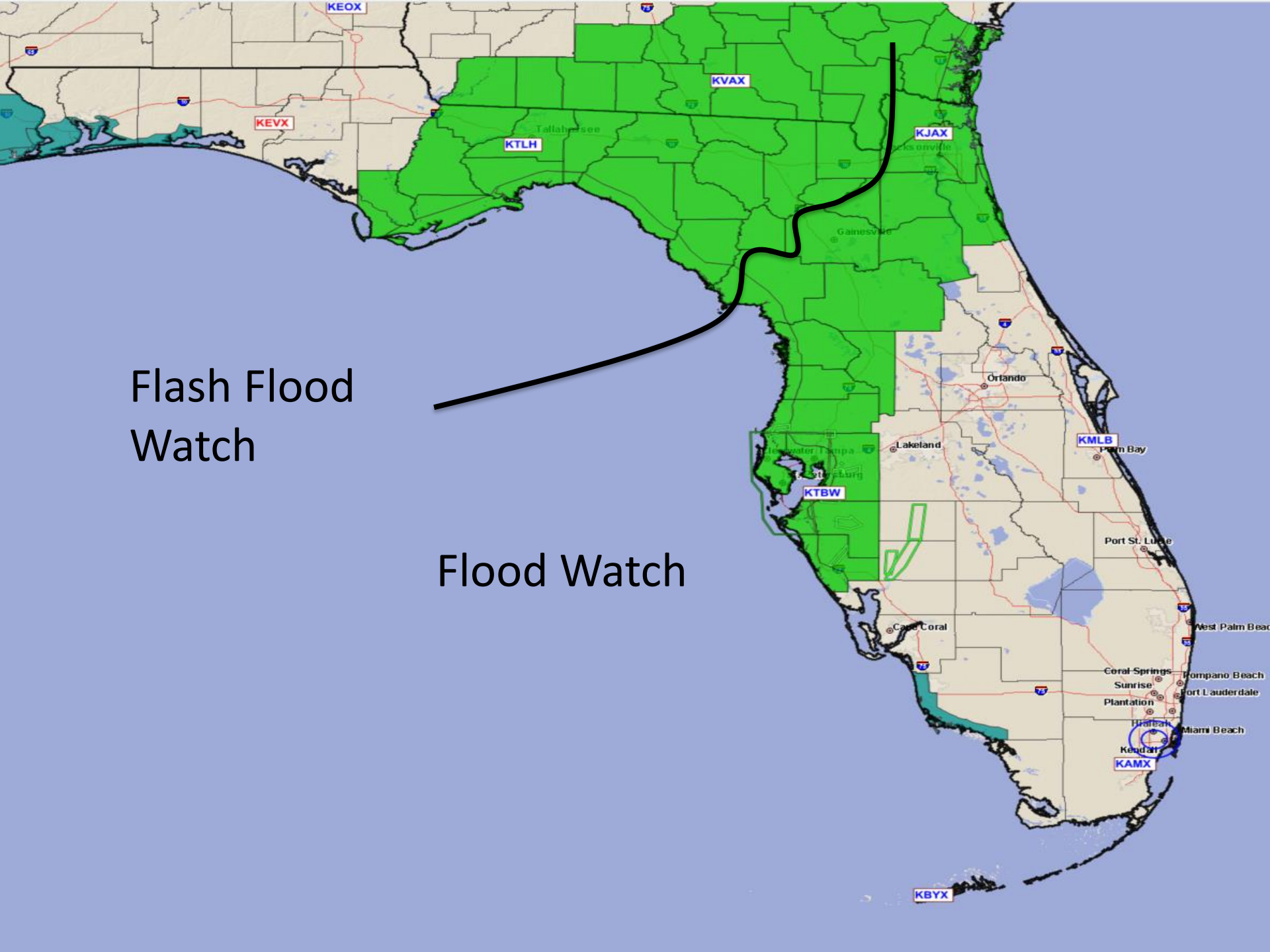
Forecast Rainfall Total – Next 5 Days





Elevated - Potential for highest rain amounts near values conducive to flash flooding capable of resulting in limited damage from fresh water flooding.

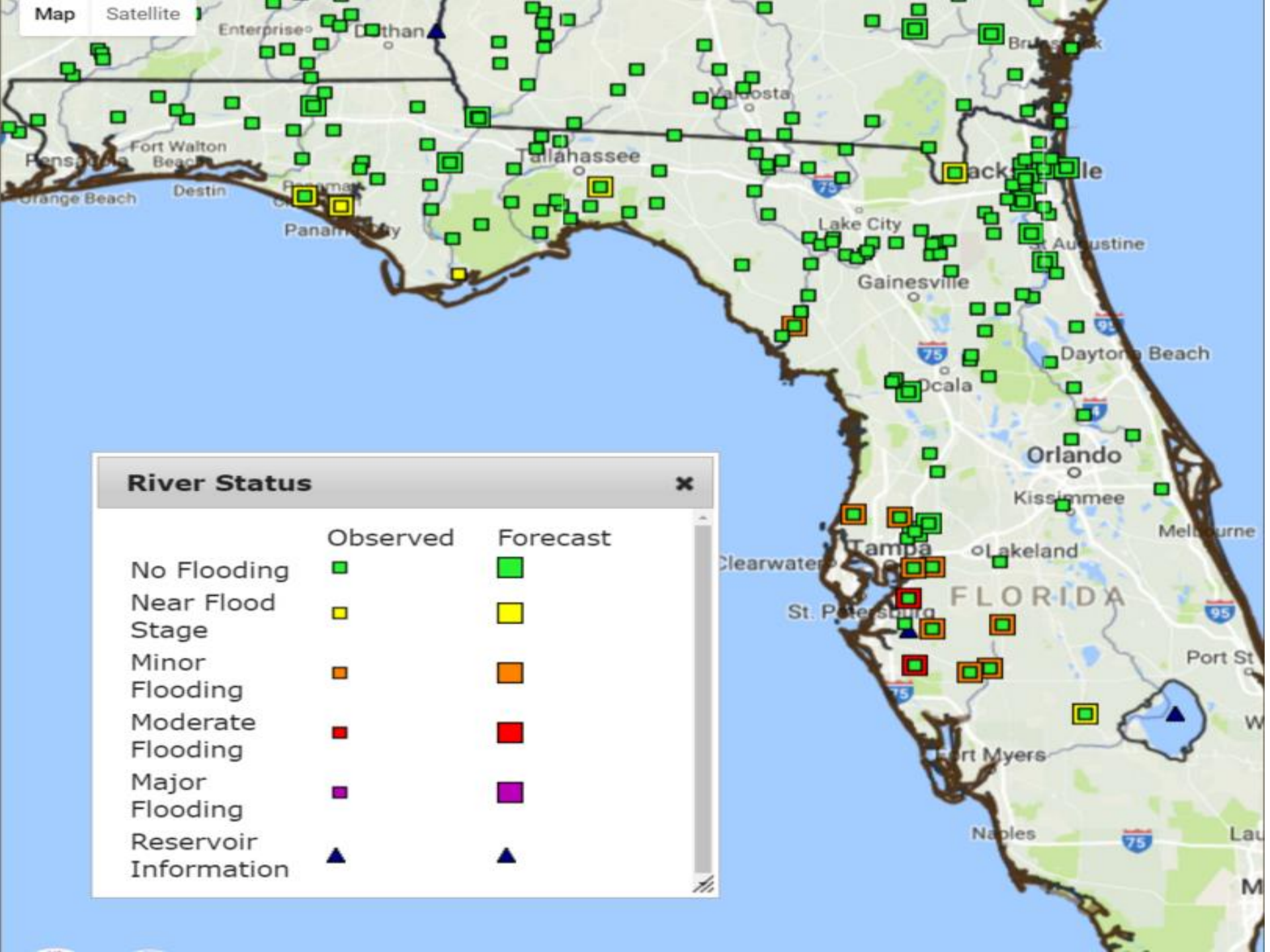
Moderate - Potential for highest rain amounts to notably exceed values conducive to flash flooding capable of producing significant damage from fresh water flooding.



Flash Flood
Watch

Flood Watch

Map Satellite



River Status

x

Observed

Forecast

No Flooding



Near Flood Stage



Minor Flooding



Moderate Flooding



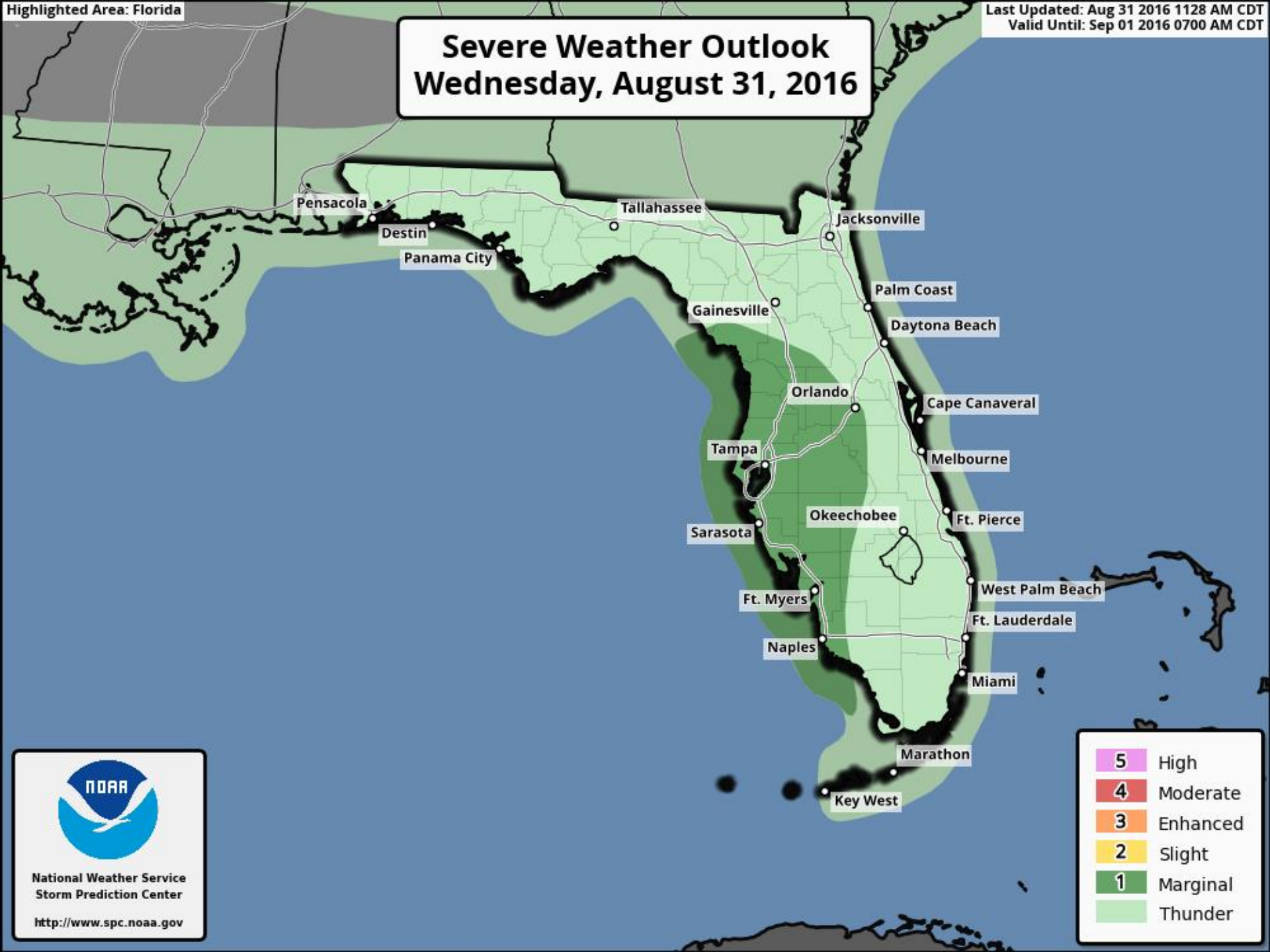
Major Flooding



Reservoir Information



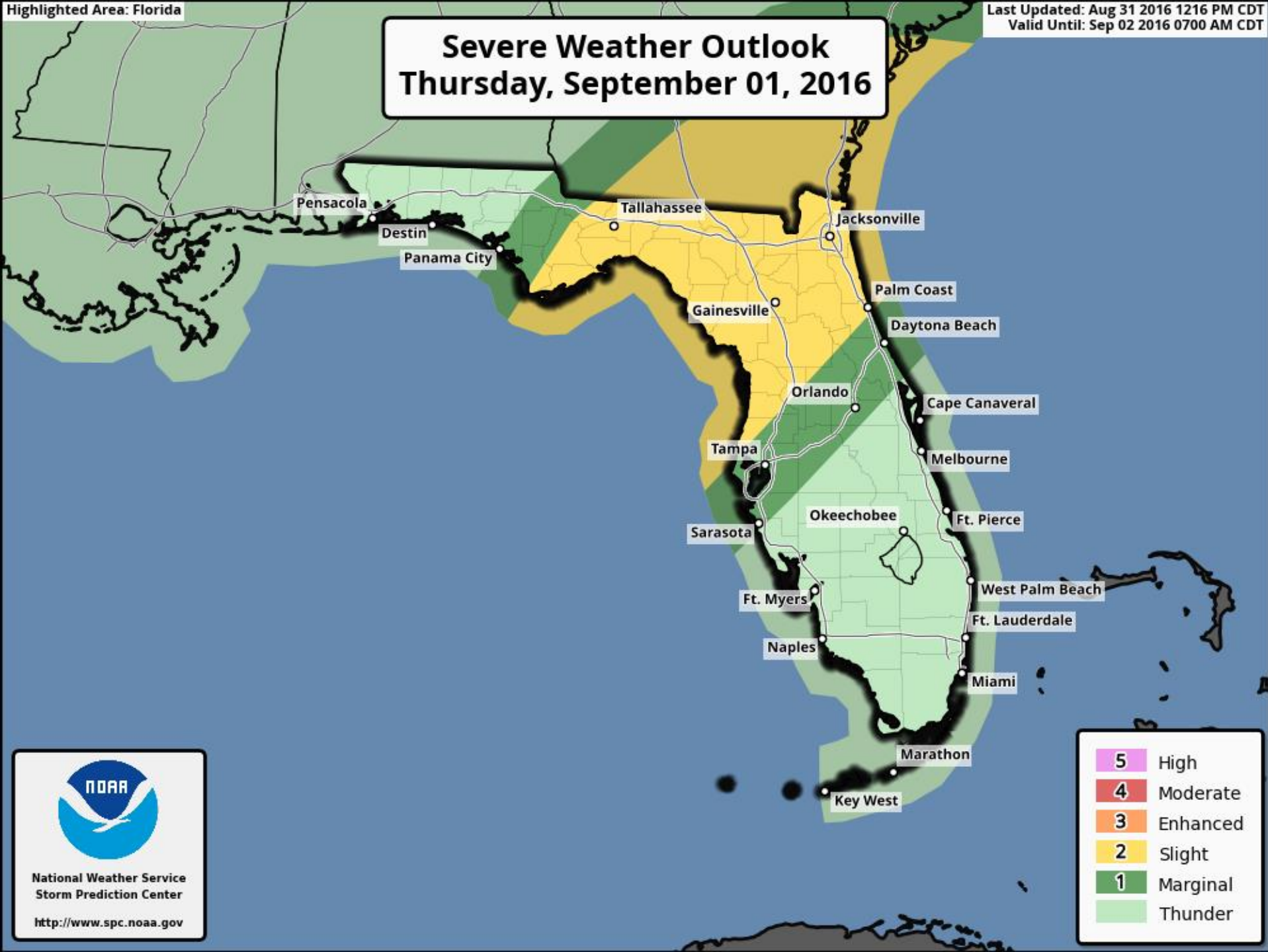
Severe Weather Outlook Wednesday, August 31, 2016



National Weather Service
Storm Prediction Center

<http://www.spc.noaa.gov>

Severe Weather Outlook Thursday, September 01, 2016



National Weather Service
Storm Prediction Center

<http://www.spc.noaa.gov>

5	High
4	Moderate
3	Enhanced
2	Slight
1	Marginal
	Thunder

Hurricane Gaston

5 PM EDT Wed Aug 31 2016

Position 35.0 N 46.9 W

Maximum Winds 105 mph

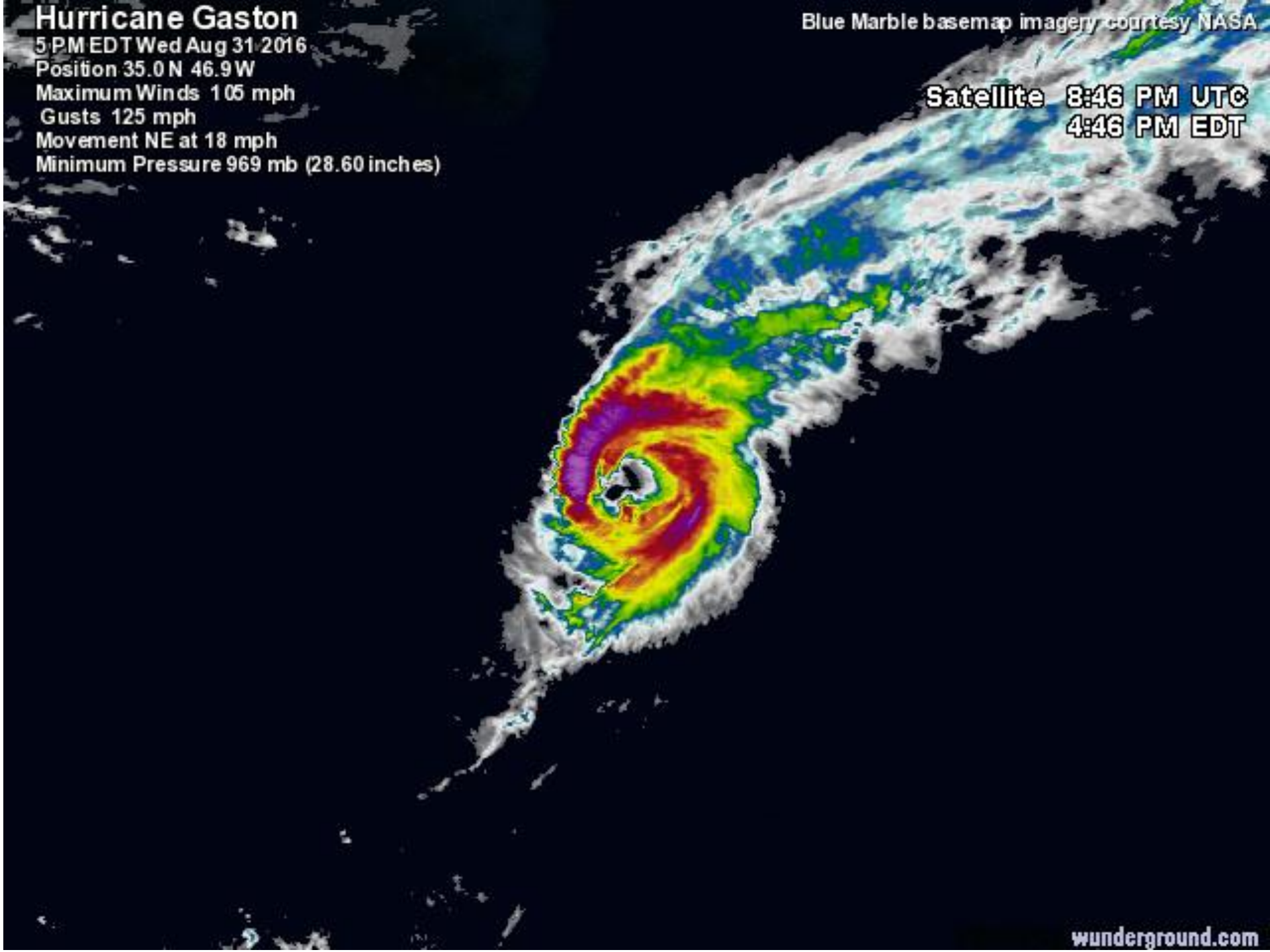
Gusts 125 mph

Movement NE at 18 mph

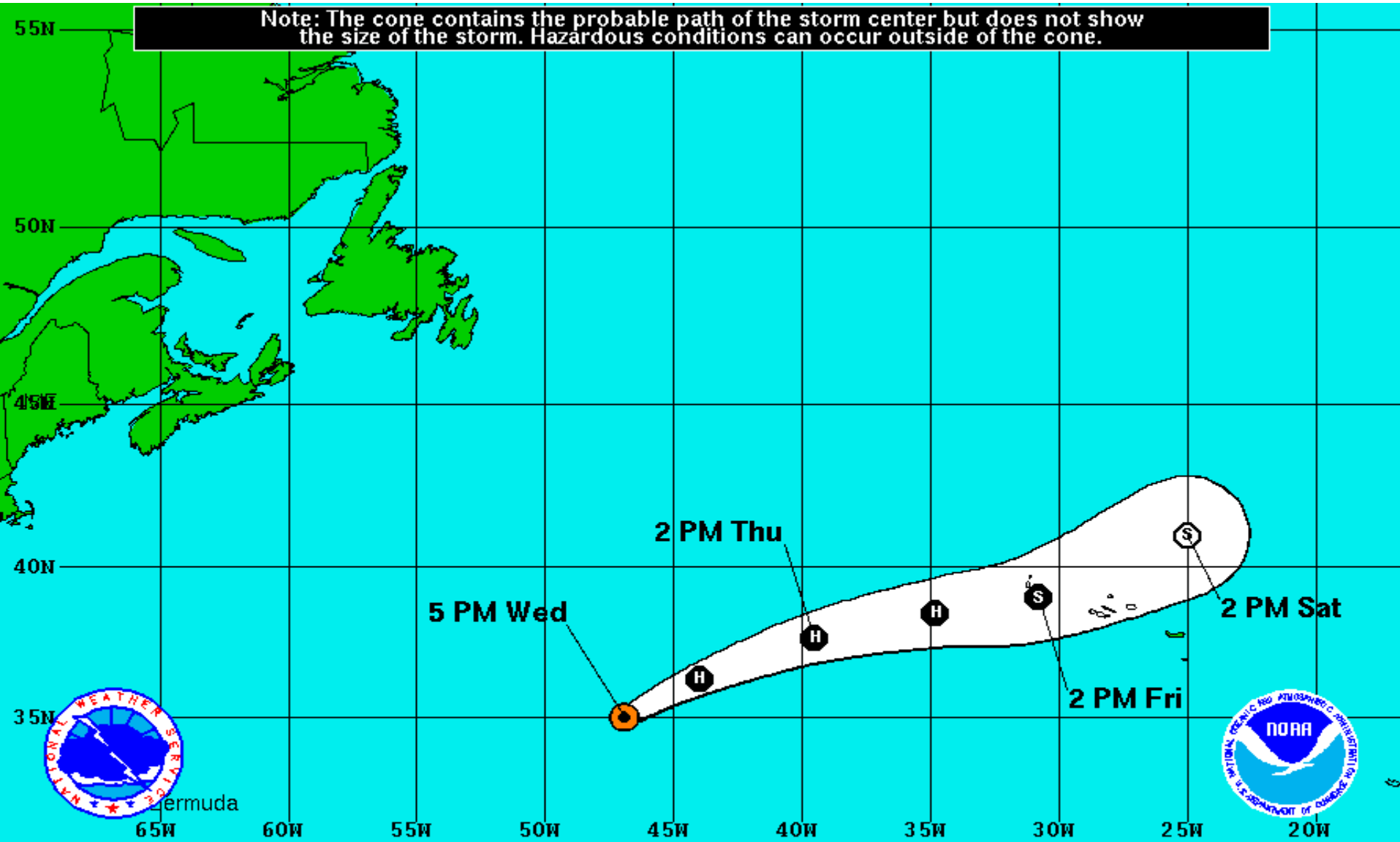
Minimum Pressure 969 mb (28.60 inches)

Blue Marble basemap imagery courtesy NASA


Satellite 8:46 PM UTC
4:46 PM EDT





Note: The cone contains the probable path of the storm center but does not show the size of the storm. Hazardous conditions can occur outside of the cone.



Hurricane Gaston
 Wednesday August 31, 2016
 5 PM EDT Advisory 37
 NWS National Hurricane Center

Current Information: 
 Center Location 35.0 N 46.9 W
 Max Sustained Wind 105 mph
 Movement NE at 18 mph

Forecast Positions:
 Tropical Cyclone  Post-Tropical
 Sustained Winds: D < 39 mph
 S 39-73 mph H 74-110 mph M > 110mph

Potential Track Area:
 Day 1-3  Day 4-5

Watches:
 Hurricane  Trop.Storm

Warnings:
 Hurricane  Trop.Storm

Tropical Depression Eight

5 PM EDT Wed Aug 31 2016

Position 36.3 N 71.9 W

Maximum Winds 30 mph

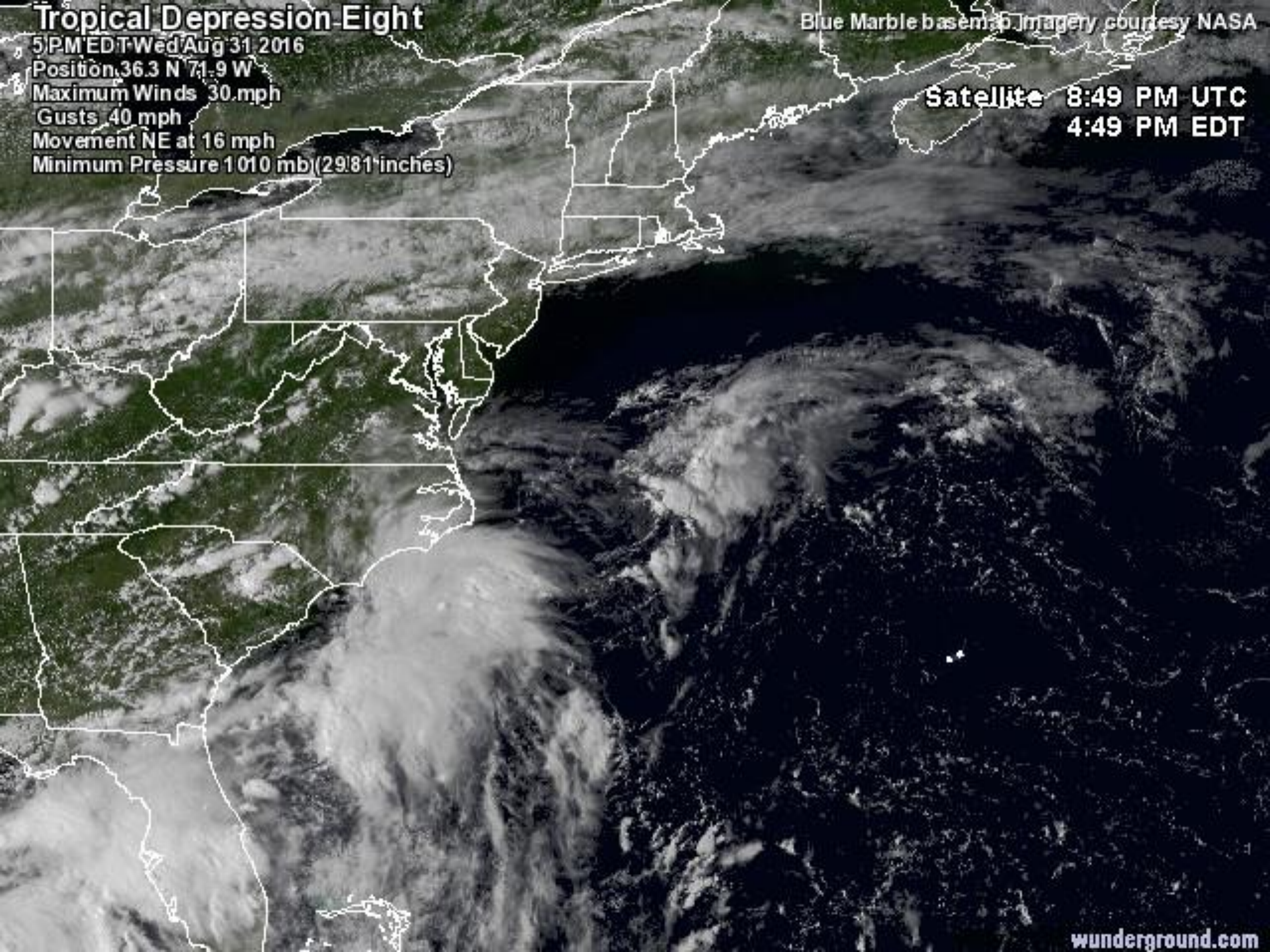
Gusts 40 mph

Movement NE at 16 mph

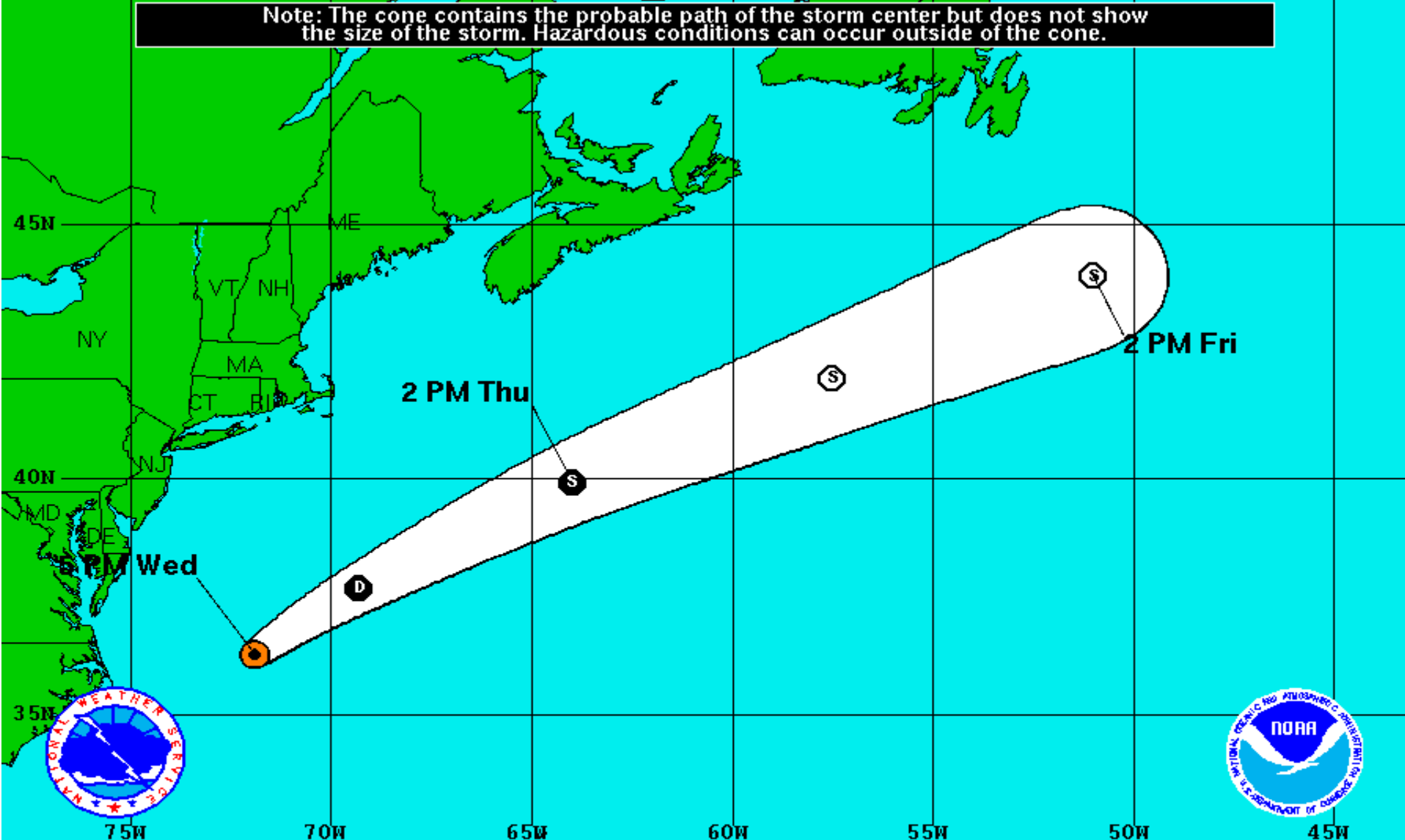
Minimum Pressure 1010 mb (29.81 inches)

Blue Marble base map Imagery courtesy NASA

Satellite 8:49 PM UTC
4:49 PM EDT



Note: The cone contains the probable path of the storm center but does not show the size of the storm. Hazardous conditions can occur outside of the cone.



Tropical Depression Eight

Wednesday August 31, 2016

5 PM EDT Advisory 14

NWS National Hurricane Center

Current Information:

Center Location 36.3 N 71.9 W

Max Sustained Wind 30 mph

Movement NE at 16 mph

Forecast Positions:

● Tropical Cyclone ○ Post-Tropical

Sustained Winds: D < 39 mph

S 39-73 mph H 74-110 mph M > 110mph

Potential Track Area:

Day 1-3 Day 4-5

Watches:

Hurricane Trop.Storm

Warnings:

Hurricane Trop.Storm



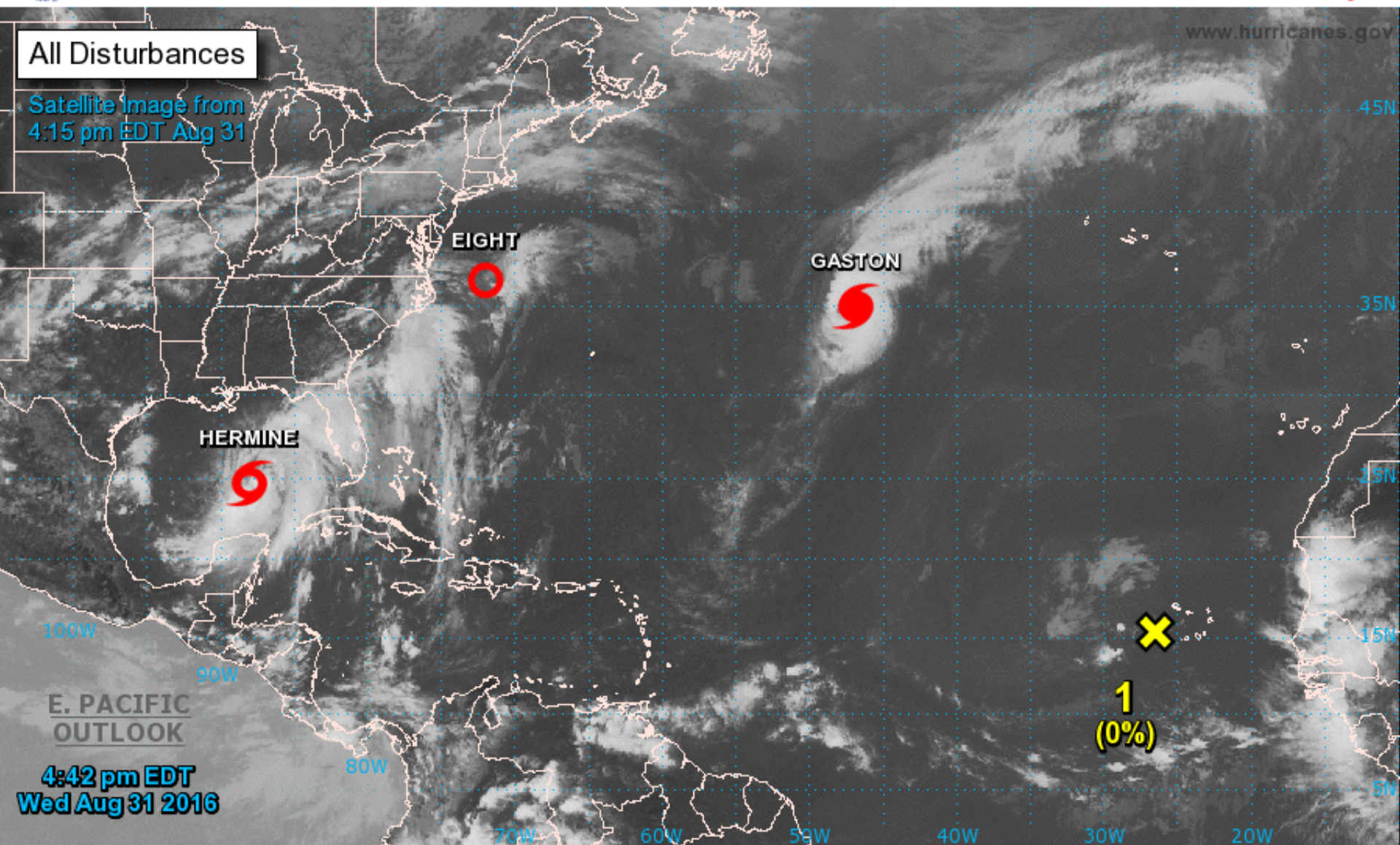
Two-Day Graphical Tropical Weather Outlook

National Hurricane Center Miami, Florida



All Disturbances

Satellite image from
4:15 pm EDT Aug 31



Current Disturbances and Two-Day Cyclone Formation Chance: < 40% 40-60% > 60%

Tropical or Sub-Tropical Cyclone: Depression Storm Hurricane

Post-Tropical Cyclone Remnants



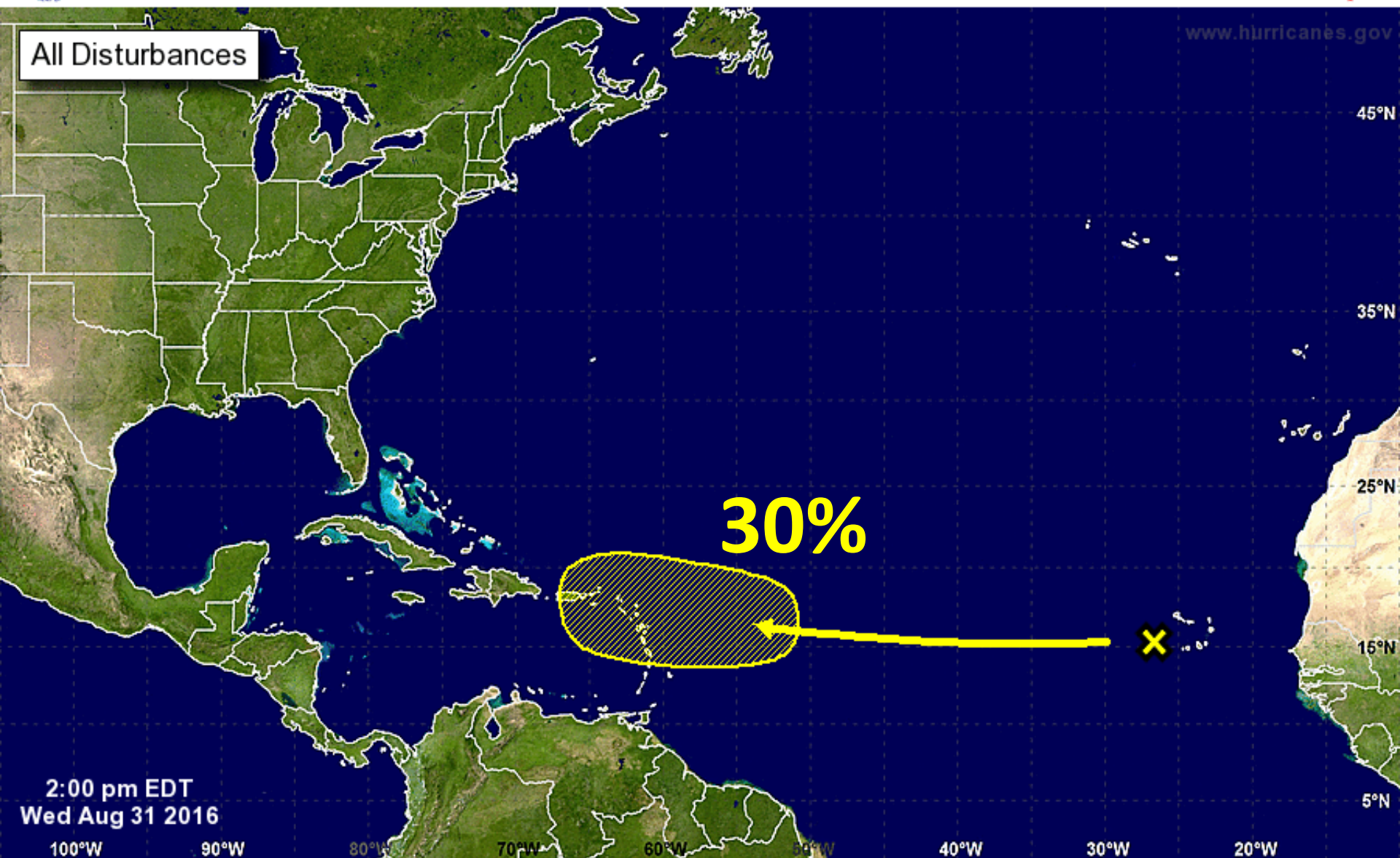
Five-Day Graphical Tropical Weather Outlook

National Hurricane Center Miami, Florida



www.hurricanes.gov

All Disturbances



2:00 pm EDT
Wed Aug 31 2016

Tropical Cyclone Formation Potential for the Five-Day Period Ending at 2:00 pm EDT Mon Sep 5 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 2pm EDT Wednesday, Tropical Depression #9 was upgraded to Tropical Storm Hermine in the central Gulf of Mexico.
 - At 5pm EDT Wednesday, the center of Tropical Storm Hermine was located about 335 miles south of Pensacola, or approximately 350 miles west of Naples, Florida.
 - After a slow north movement today, the storm is now moving north-northeast around 7mph. This motion is expected to continue along with a faster forward movement tonight and Thursday.
 - Maximum sustained winds have increased to 45 mph with higher gusts. Additional strengthening is forecast during the next 36 hours and could be near hurricane strength just prior to landfall.
 - There is still some uncertainty in regards to the location and timing of landfall and could be as early as Thursday night or as late as Friday morning anywhere between Destin and Steinhatchee.
 - The current official forecast shows a potential landfall near Apalachicola around midnight Thursday as a strong tropical storm.
-
- Elsewhere, Gaston has weakened back to a Category 2 hurricane with winds of 105mph and will continue moving northeast into the north-central Atlantic.
 - Tropical Depression #8 is moving quickly northeast just offshore the U.S. eastern seaboard with winds of 35mph.
 - 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, is expected to remain in a unfavorable environment for development for the next few days. However, conditions could become more favorable for development this weekend and the system has a 30% chance of becoming a tropical cyclone within the next 5 days.

Florida Outlook:

- A **Hurricane Watch** is in effect for coastal areas of Walton, Bay, Gulf, Franklin, Wakulla, Jefferson, Taylor, Dixie, Levy, Citrus, Hernando and Pasco Counties.

Florida Outlook:

- A **Hurricane Watch** is in effect for coastal areas of Walton, Bay, Gulf, Franklin, Wakulla, Jefferson, Taylor, Dixie, Levy, Citrus, Hernando and Pasco Counties.
- A **Tropical Storm Warning** is in effect for Bay, Gulf, Franklin, Liberty, Gadsden, Leon, Wakulla, Jefferson, Madison, Taylor, Lafayette, Dixie, Levy, Citrus, Hernando and Pasco Counties.
- A **Tropical Storm Watch** is in effect for Alachua, Bradford, Clay, Columbia, Duval, Gilchrist, Hamilton, Marion, Nassau, Putnam, Suwannee, St. Johns and Union 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 Hudson and Grayton Beach) and northern Peninsula generally north of Ocala and Flagler Beach currently have a greater than 1 in 3 chance of receiving sustained tropical storm force winds within the next 3 days. Chances for hurricane force winds are less than 10% everywhere in Florida. Tropical storm force gusts could occur in heavy bands in advance of the storm, with sustained winds arriving in the warning area Thursday evening and spreading northeast through early Friday morning.
- Storm surge heights up to 5 feet are expected along the eastern 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 8 feet if peak surge occurs at high tide.
- A high threat of rip currents is expected to continue for many Florida beaches this week and 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 6-10" this week, with locally higher amounts up to 15 inches possible. Highest amounts will be near the coast.
- Isolated tornadoes will also be possible with the outer bands of Hermine. There is a marginal risk of severe weather tonight for West Central and Southwest Florida and a slight risk for North Florida tomorrow where Tornado Watches may be posted.



TROPICAL UPDATE

Created by:

Amy Godsey, Chief State Meteorologist
amy.godsey@em.myflorida.com

State Meteorological Support Unit
Florida Division of Emergency
Management

Another briefing packet will be issued Thursday morning. For more information on this system, please visit the NHC website at www.nhc.noaa.gov

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