



FDEM State Meteorological Support Unit

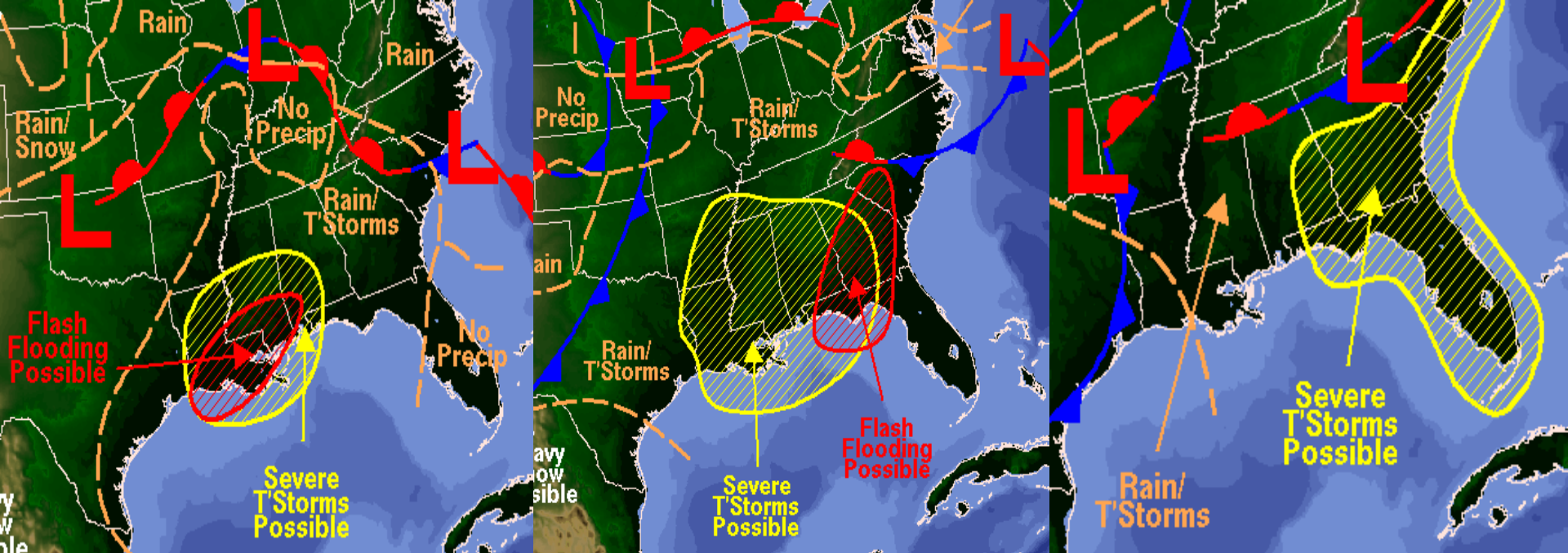
# **SEVERE WEATHER UPDATE**

**10 AM EST**

**Friday, January 20, 2017**

**Weekend Storm System**

**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.**



**Friday**

**Saturday**

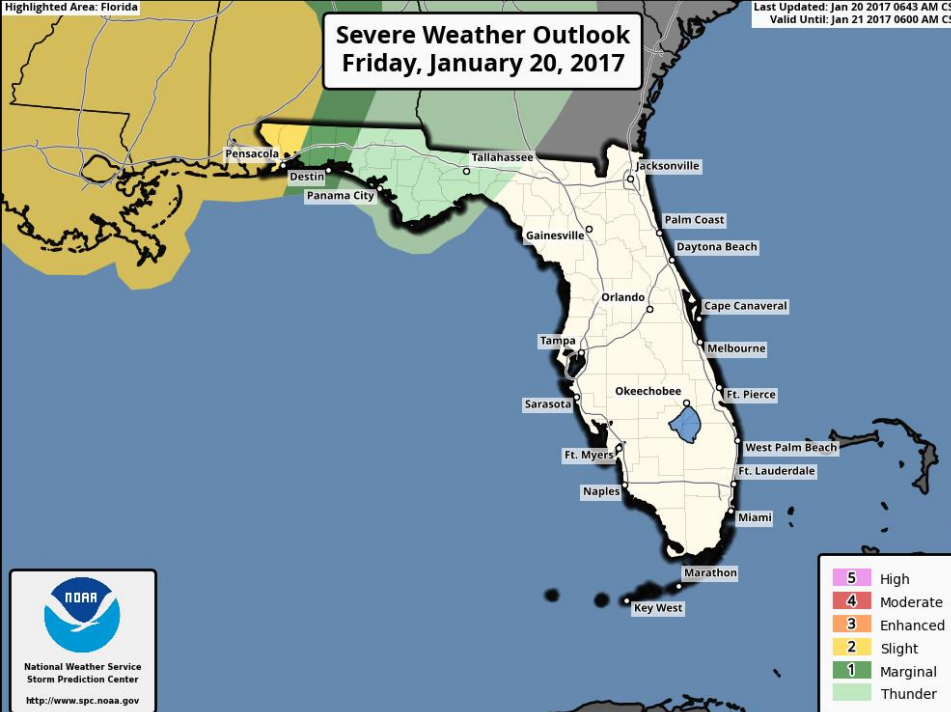
**Sunday**

- Strong to severe thunderstorms will be possible across much of this weekend as a strengthening low pressure system will move across the Southeast U.S., dragging a strong cold front over the state and increasing the threat for severe weather.
- A squall line will develop just ahead of this front, bringing numerous showers and thunderstorms, affecting the Panhandle Saturday afternoon through early Sunday, and then the Peninsula Sunday afternoon through Monday morning.
- Additional isolated strong to severe thunderstorms could develop ahead of the main squall line during the day on Sunday.
- Main threats will be damaging wind gusts, frequent cloud-to-ground lightning strikes, and heavy downpours. Conditions will also support a threat for tornadoes and hail.

Highlighted Area: Florida

### Severe Weather Outlook Friday, January 20, 2017

Last Updated: Jan 20 2017 0643 AM CST  
Valid Until: Jan 21 2017 0600 AM CST



**THUNDERSTORMS**  
(no label)

No severe\*  
thunderstorms  
expected

Lightning/flooding  
threats exist with  
all thunderstorms

**1 - MARGINAL**  
(MRGL)

Isolated severe  
thunderstorms  
possible

Limited in duration  
and/or coverage  
and/or intensity

**2 - SLIGHT**  
(SLGT)

Scattered  
severe storms  
possible

Short-lived and/or  
not widespread,  
isolated intense  
storms possible

**3 - ENHANCED**  
(ENH)

Numerous  
severe storms  
possible

More persistent  
and/or widespread,  
a few intense



- Winds to 40 mph
- Small hail

- Winds 40-60 mph
- Hail up to 1"
- Low tornado risk

- One or two tornadoes
- Reports of strong winds/wind damage
- Hail ~1", isolated 2"

- A few tornadoes
- Several reports of wind damage
- Damaging hail, 1 - 2"

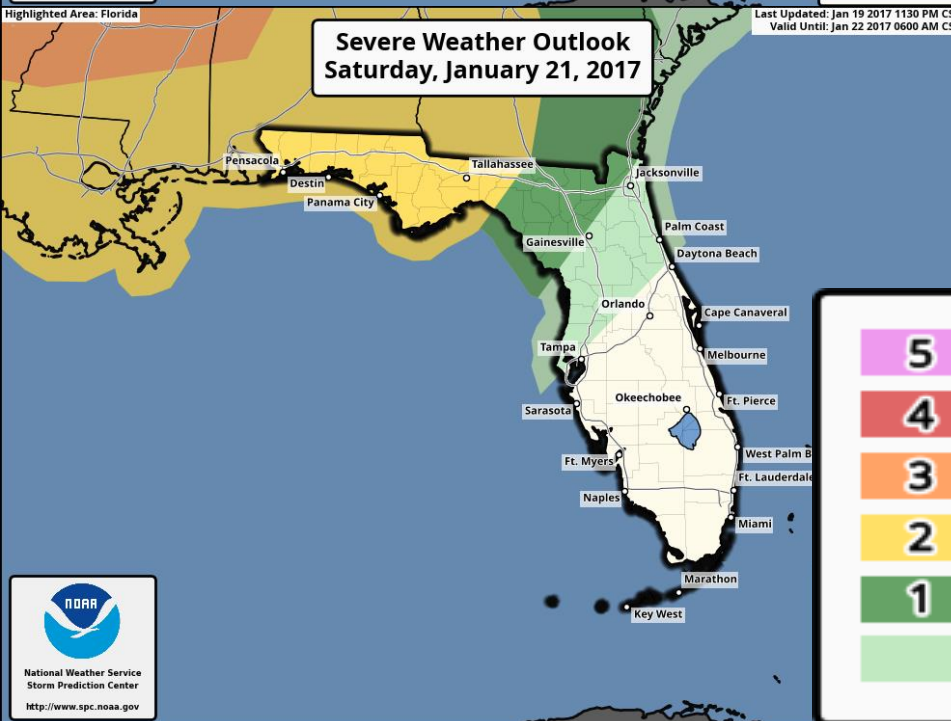
5	High
4	Moderate
3	Enhanced
2	Slight
1	Marginal
	Thunder



Highlighted Area: Florida

### Severe Weather Outlook Saturday, January 21, 2017

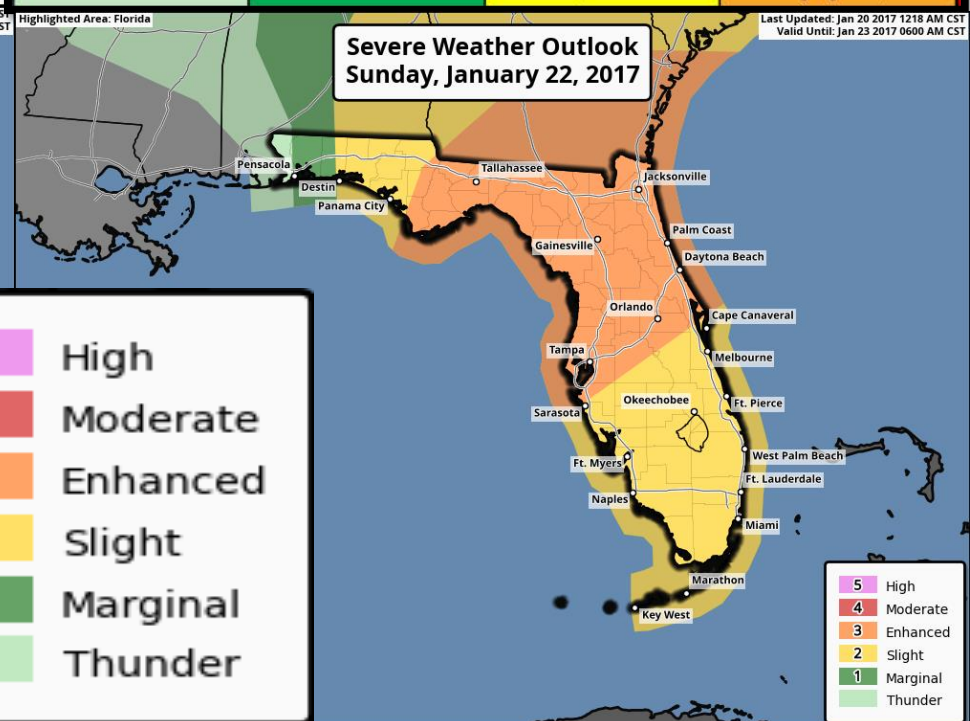
Last Updated: Jan 19 2017 1130 PM CST  
Valid Until: Jan 22 2017 0600 AM CST



Highlighted Area: Florida

### Severe Weather Outlook Sunday, January 22, 2017

Last Updated: Jan 20 2017 1218 AM CST  
Valid Until: Jan 23 2017 0600 AM CST

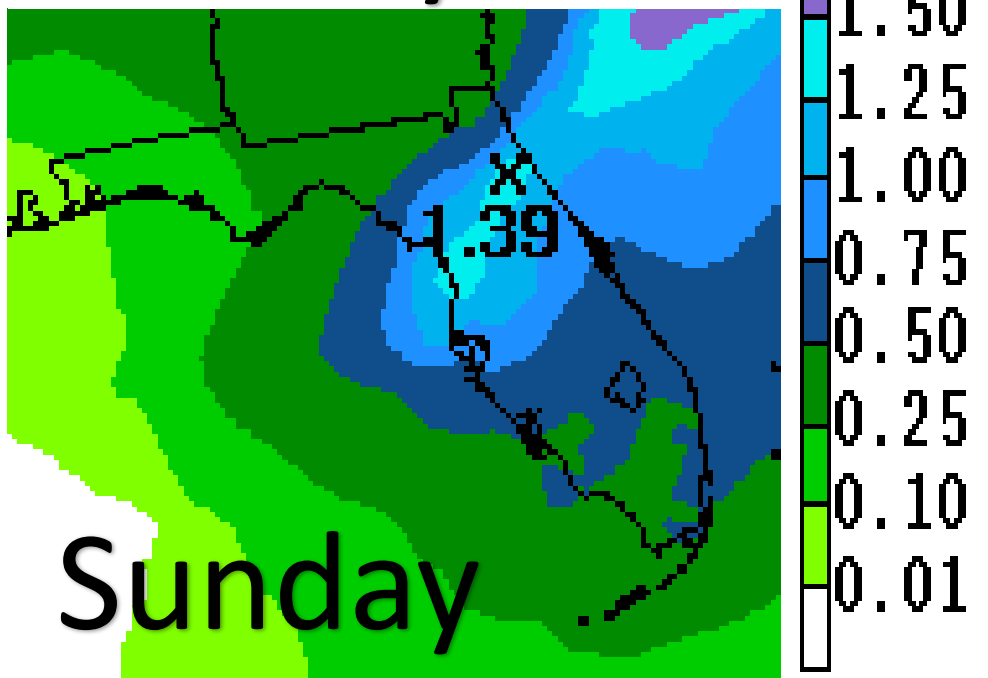
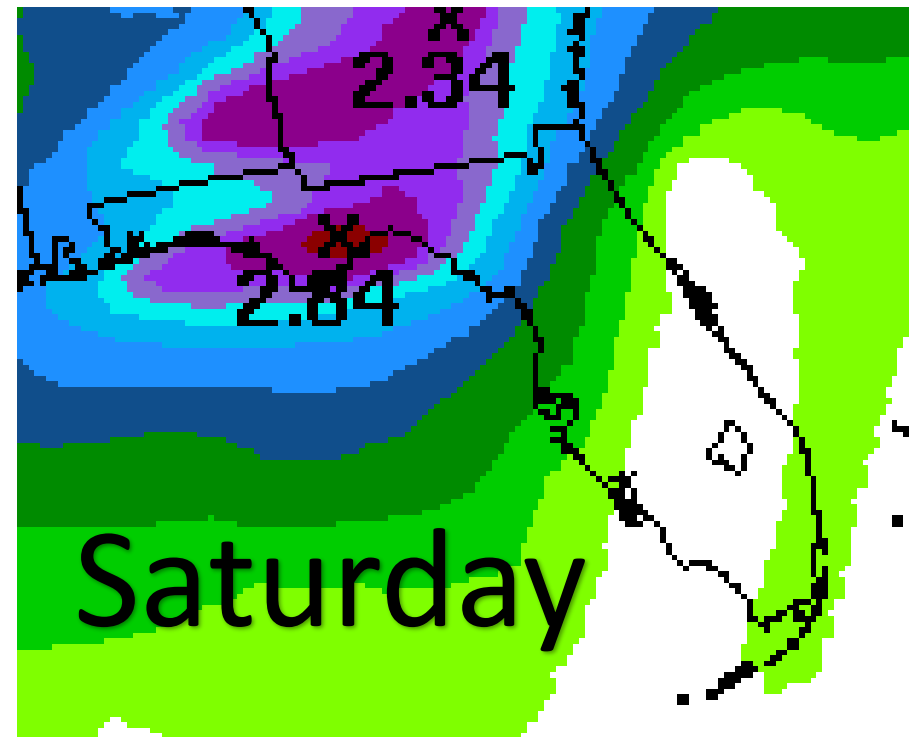
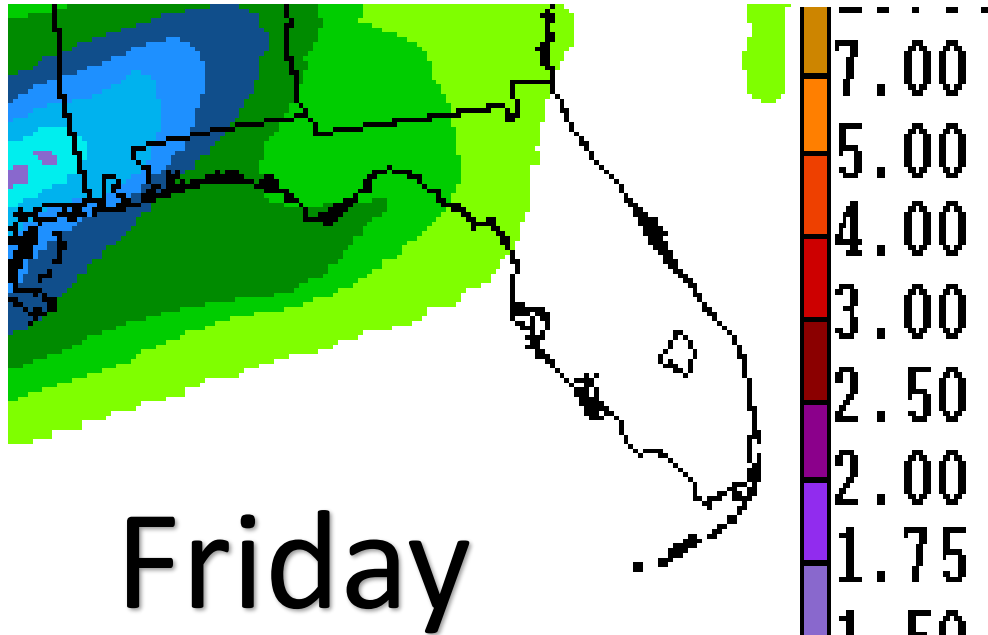


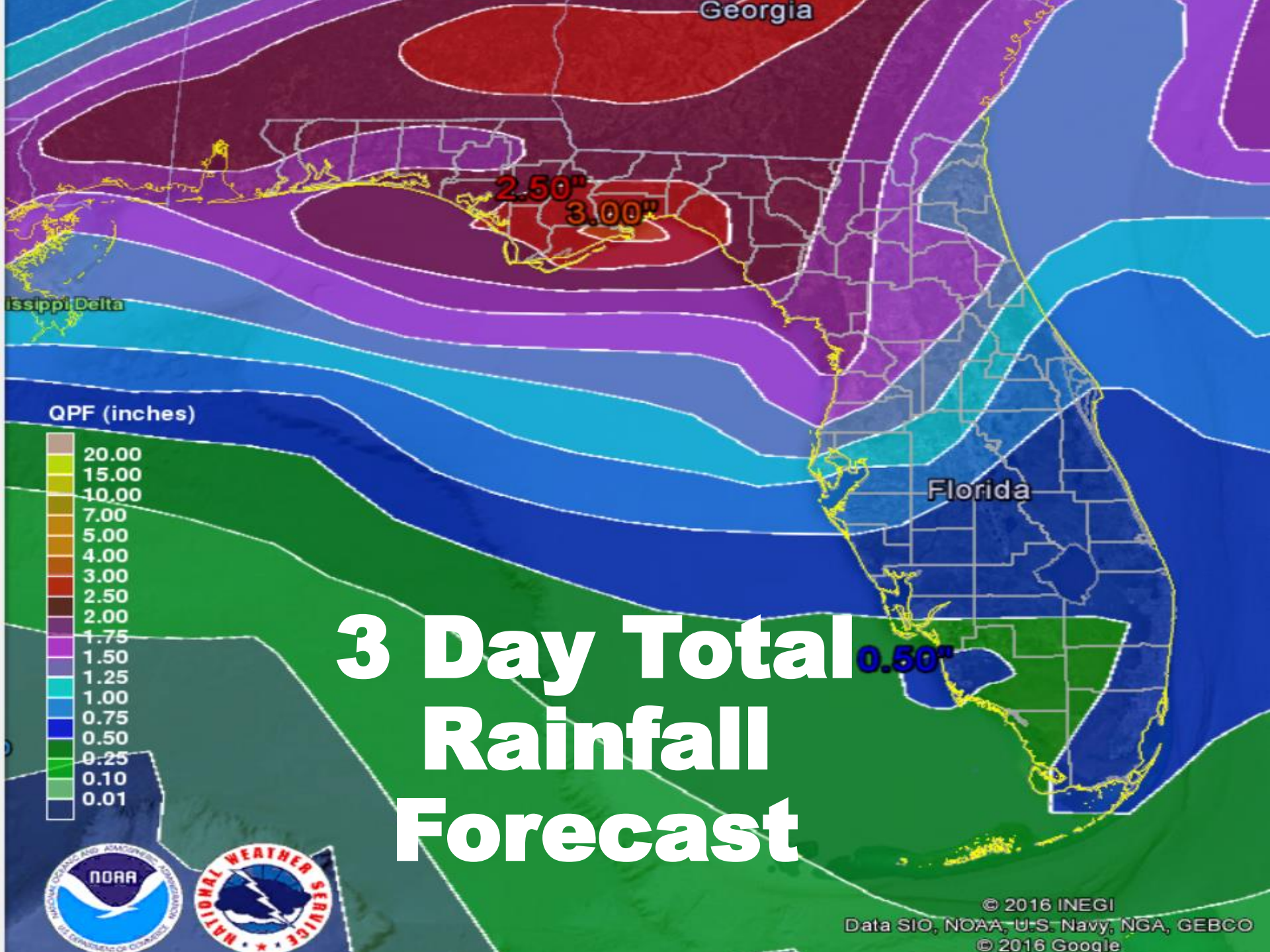
5	High
4	Moderate
3	Enhanced
2	Slight
1	Marginal
	Thunder

5	High
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3	Enhanced
2	Slight
1	Marginal
	Thunder



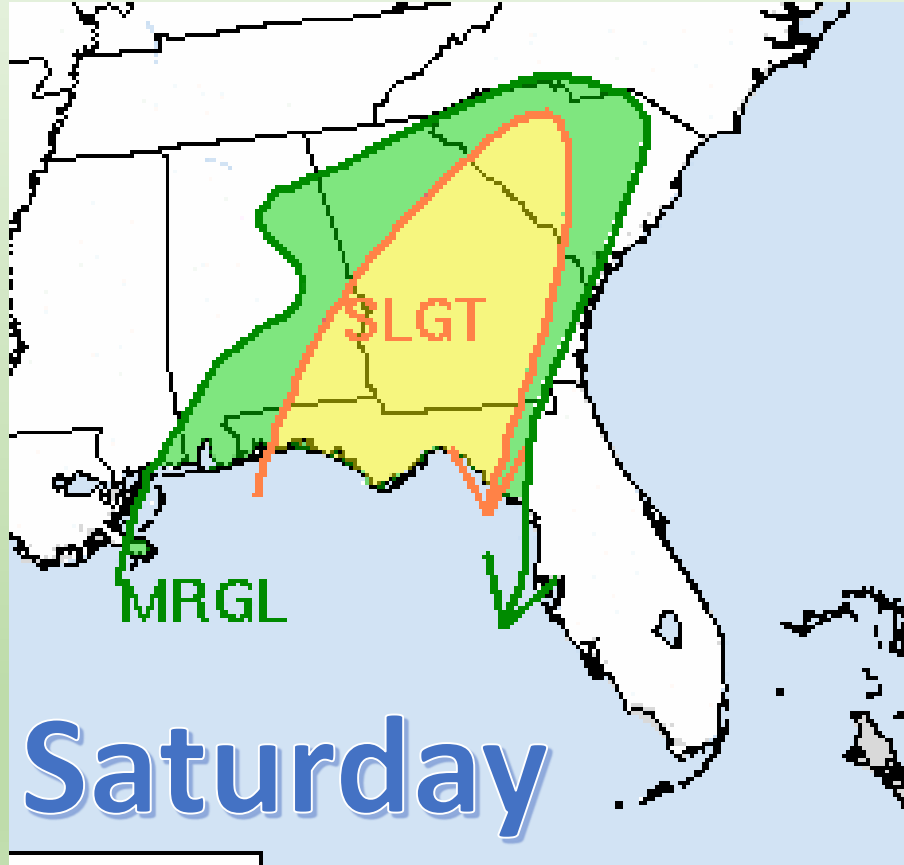
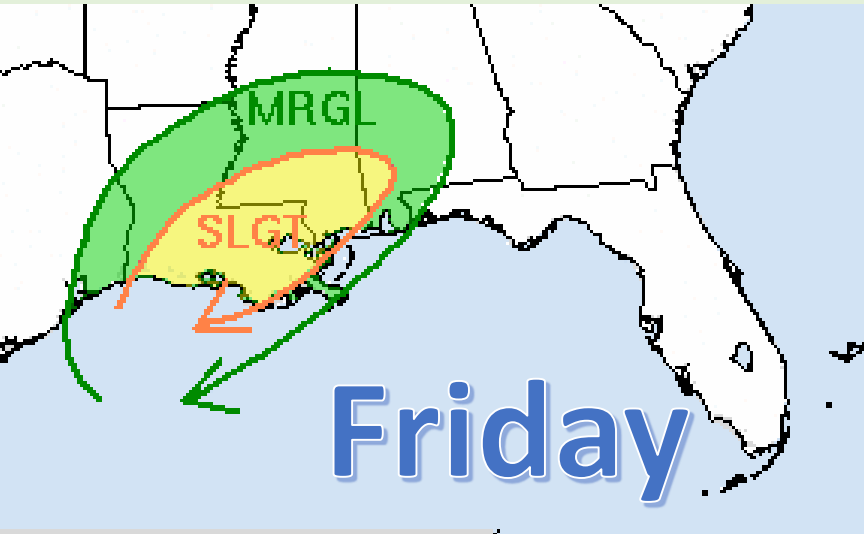
# Heavy Rain Threat





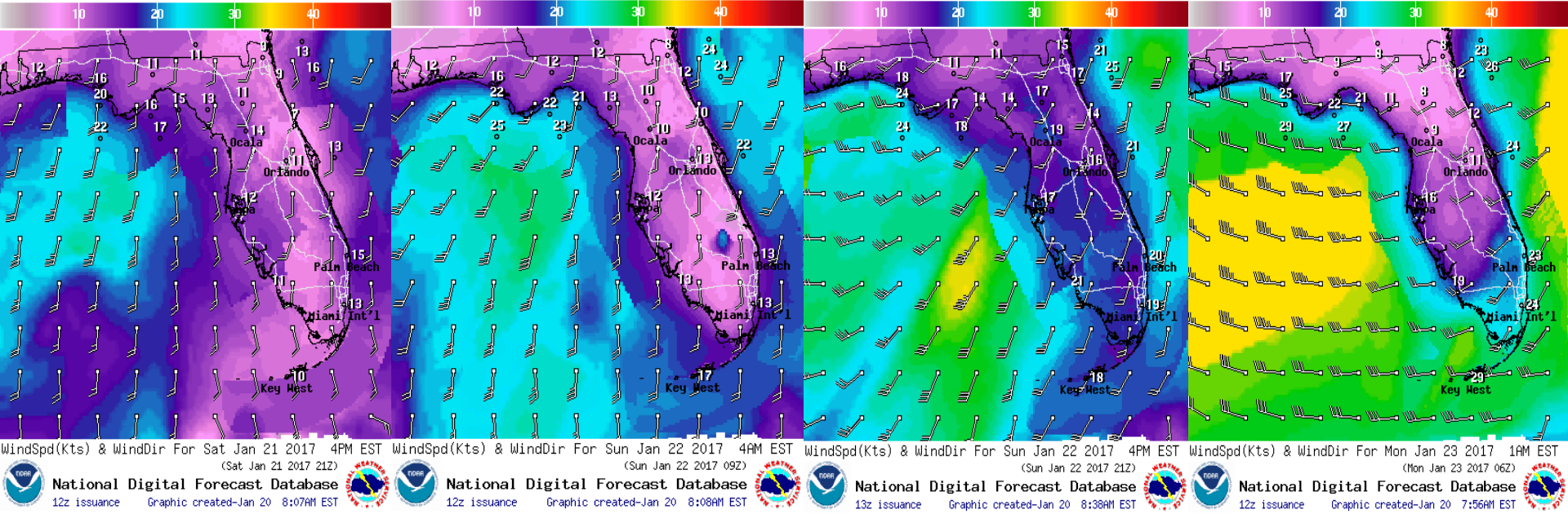
# Excessive Rainfall Risk

- Excessive Rainfall Outlooks forecast the probability that the amount of rainfall over short durations could bring rivers and streams up to bankfull conditions or other flash flooding will be possible.



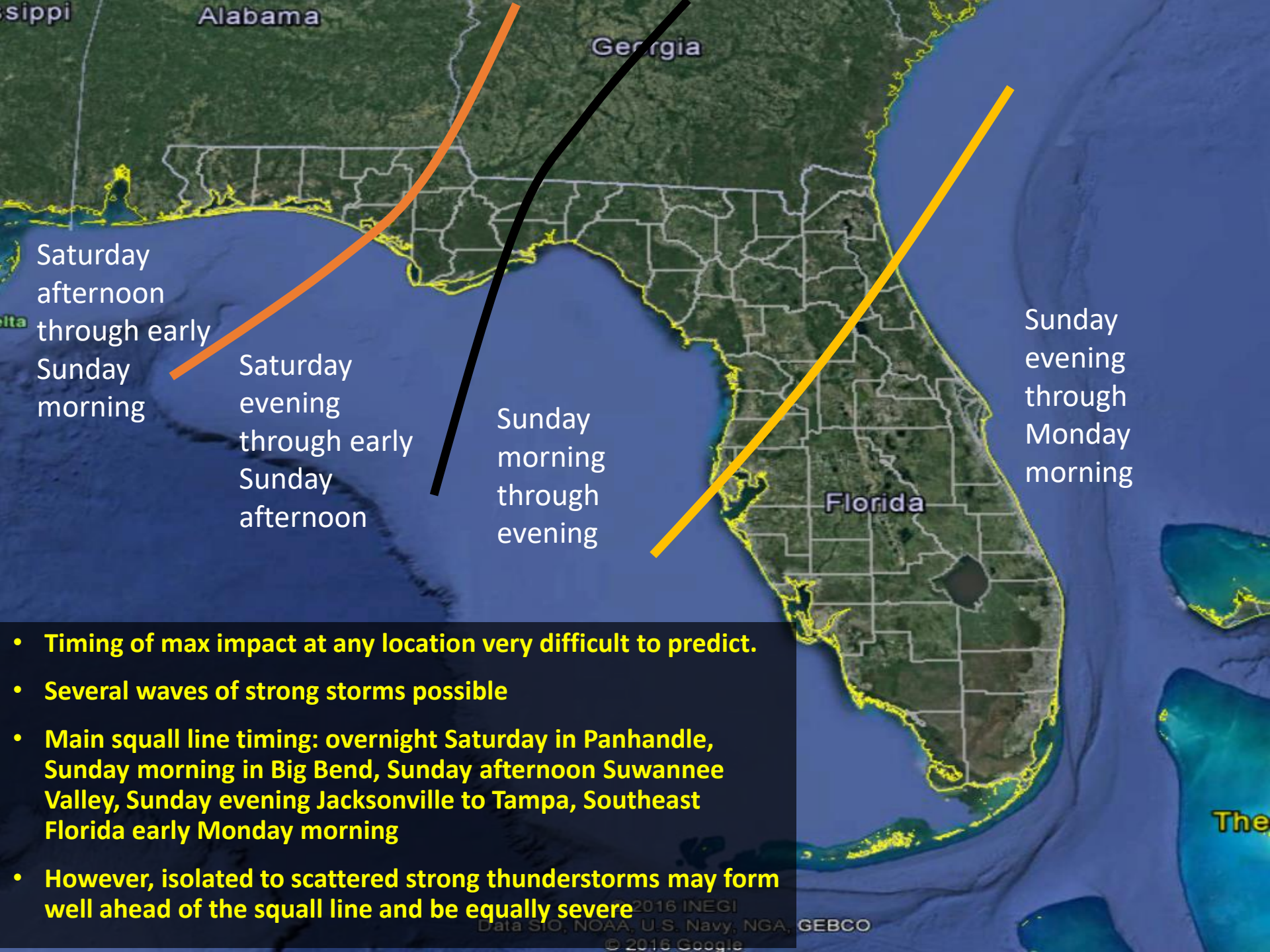
Risk of rainfall exceeding flash flood guidance to the right of a line

<b>HIGH: &gt; 15%</b>	<b>SLGT: 5%-10%</b>
<b>MDT: 10%-15%</b>	<b>MRGL: 2%-5%</b>



## Coastal Flooding:

- Strong south-southwest winds Saturday and early Sunday could cause minor coastal flooding along portions of the Panhandle and Big Bend Coast
- Strong winds out of the southwest and then west on Sunday and Monday could raise water levels along the entire West Florida Coast, including the Bay side of the Keys
- Nearshore wave heights could be as much as 8-10 feet
- Strong rip currents likely
- High Surf and Small Craft Advisories could be issued



- **Timing of max impact at any location very difficult to predict.**
- **Several waves of strong storms possible**
- **Main squall line timing: overnight Saturday in Panhandle, Sunday morning in Big Bend, Sunday afternoon Suwannee Valley, Sunday evening Jacksonville to Tampa, Southeast Florida early Monday morning**
- **However, isolated to scattered strong thunderstorms may form well ahead of the squall line and be equally severe**



# Summary:

- Multi-day, multi-hazard storm system to affect the state Saturday - Monday.
- The Storm Prediction Center has highlighted much of the Florida Panhandle as having a slight risk for severe storms on Saturday. The these threats will shift eastward to the Big Bend and Peninsula on Sunday.
- No Tornado Watches in effect, but will likely be issued as the event unfolds.
- Threats:
  - Strong to severe damaging gusty winds
  - Periods of heavy rain that may cause minor flooding
  - Minor river flooding for already elevated river stems
  - Frequent lightning
  - Hail
  - Tornadoes
  - Above normal tides and possible minor coastal flooding
- Still some uncertainty in exact timing for highest impact on Saturday and Sunday, but as of this morning, the greatest threat for severe weather along the squall line will occur Saturday afternoon and evening for the Panhandle, overnight into Sunday morning for the Big Bend/Suwannee Valley, Sunday afternoon into Sunday evening for Northeast and Central Florida, and overnight Sunday for southern portions of the Peninsula.
- A threat for strong to severe storms may develop out ahead of the squall line as isolated thunderstorms develop during the day on Saturday and Sunday.