



# Decision Support Weather Briefing

National Weather Service – Tallahassee, FL

## Significant Severe Weather Event Today and into Thursday

**April 10, 2024**  
**9:30 AM ET Webinar**

**Kelly Godsey**  
**NWS Tallahassee, FL**



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# Situation Overview

## • Significant severe weather event likely later today and into Thursday

### •Round 1: This afternoon

- Scattered severe storms moving into the Florida Panhandle and SE Alabama
- Squall line and individual severe thunderstorms

### • Round 2: Intense and powerful squall line will move through the region tonight and into Thursday

- This will potentially be more intense than Round 1, though the line may weaken while approaching I-75.
- **Do not focus as much on the thunderstorm risk level. There is little to no difference in our expected impacts between a “Hatched Enhanced Risk” and a “Moderate Risk” This is as serious severe weather situation, especially in our Western Counties.**

### All severe hazards possible:

- \* Damaging to Destructive winds of 60-75 mph.
- \* Several tornadoes (some could strong of EF-2 intensity or greater, especially in our western areas)
- \* Hail.

### Other hazards:

- \* Non thunderstorm gusts of 35-45 mph ahead of the squall line overnight.
- \* Considerable Flash Flooding, especially across the central and western portions of the region.
- \* Minor to moderate coastal flooding in Apalachee Bay

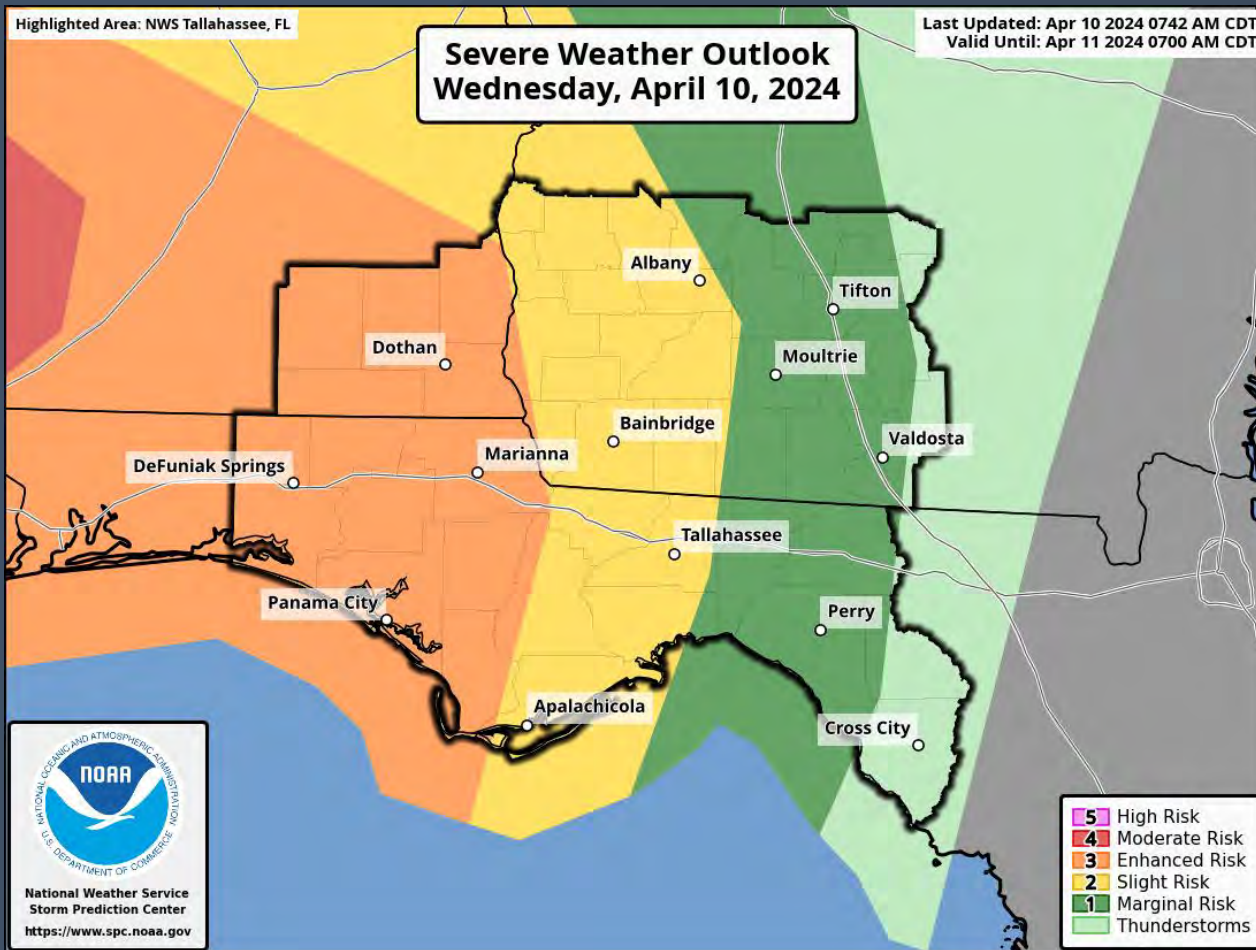
### Impacts:

- \* Numerous to widespread power outages, structural damage (some significant), beach erosion, minor river flooding.



# Severe Weather Outlook until Daybreak Thursday

## Today through Daybreak Thursday



### What:

- Scattered severe storms in the Florida Panhandle and SE Alabama in round 1.
- Squall line later tonight through the entire region.
- Enhanced Risk (level 3 of 5) indicates greatest risk for impacts.

### When:

- Late this afternoon through Thursday morning.

### Hazards:

- 60 to 75 mph thunderstorm wind gusts
- Several tornadoes - **some strong**.
- Hail up to 1 inch possible.

Minimal Threat High Threat

Damaging Wind



Hail



Tornadoes



Higher Threat for Severe Storms



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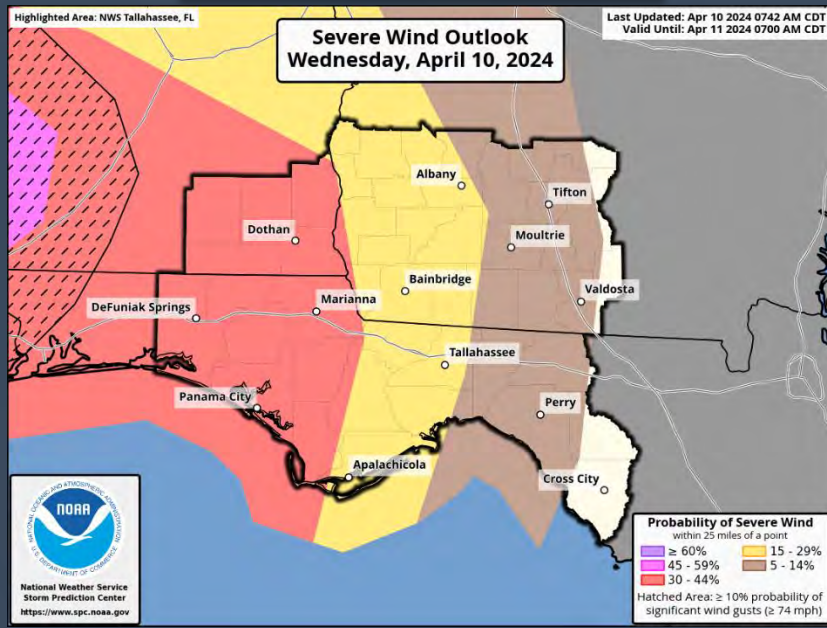


# Individual Hazards – Today until Daybreak Thursday

## Tornado Potential

## Damaging Wind Potential

## Hail Potential



**Note – significant areas (hatched) imply strong tornadoes**



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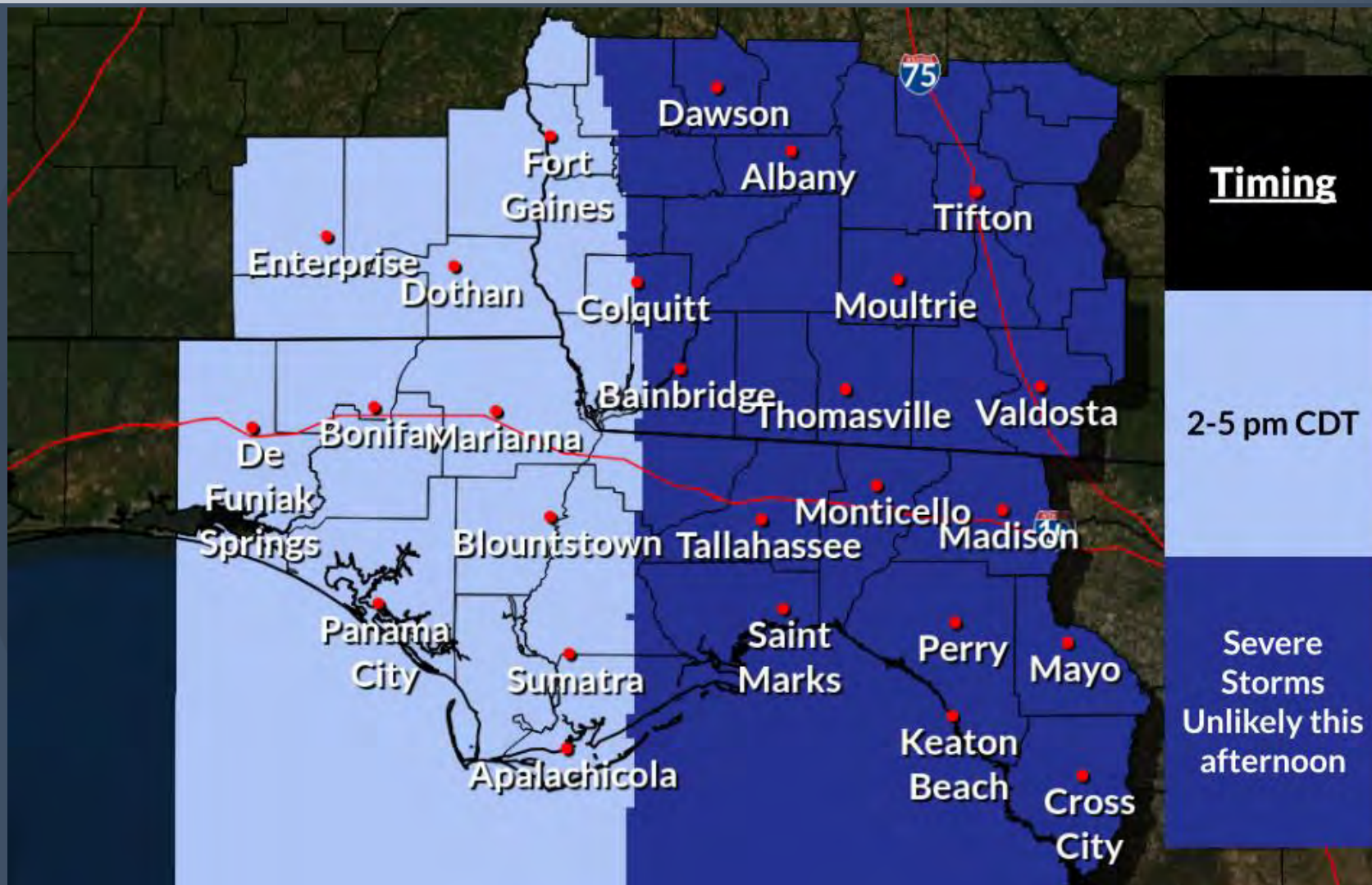


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# Initial Severe Storm Arrival Times

This afternoon into early evening



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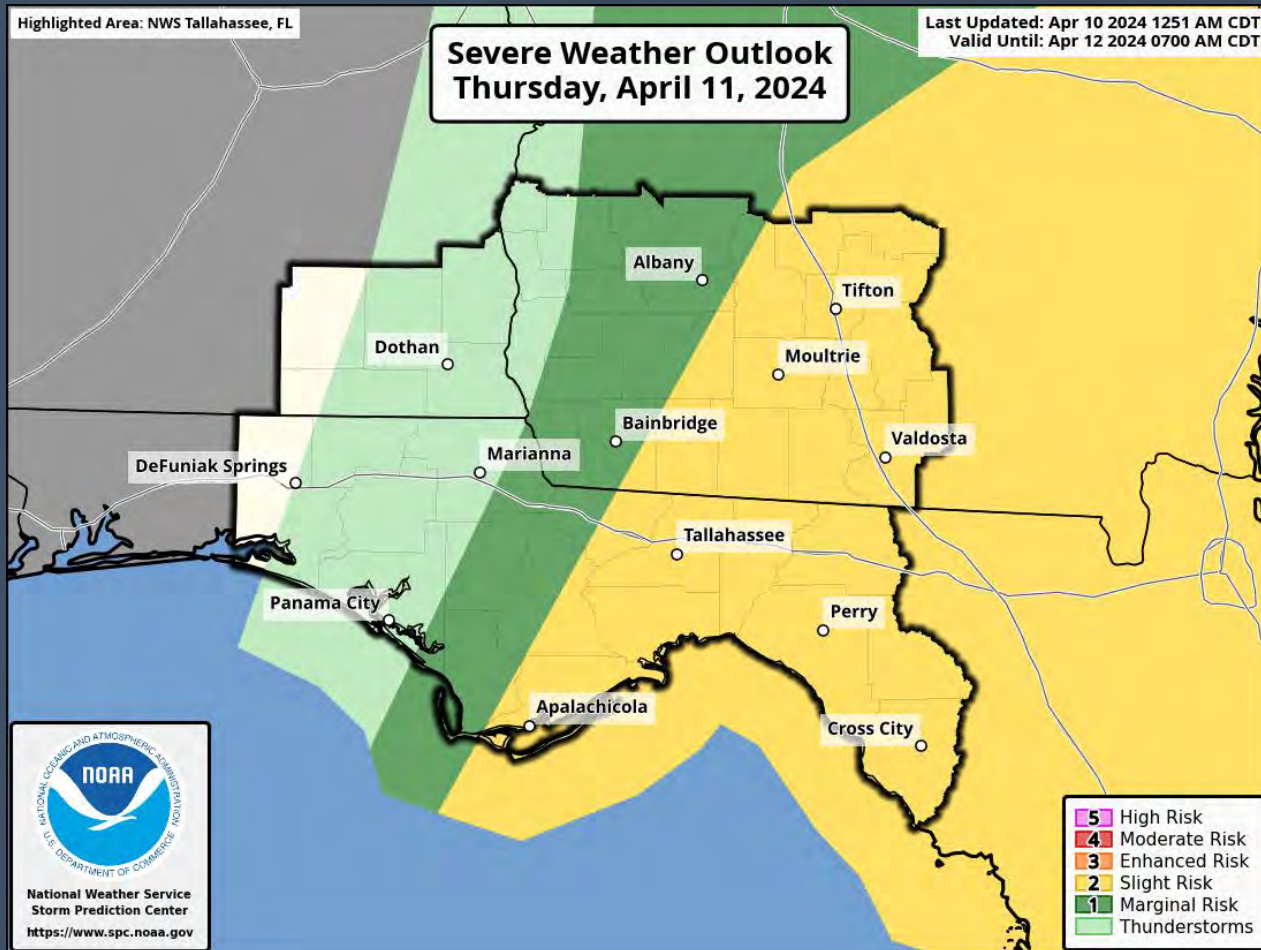
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# Severe Weather Outlook Thursday after Daybreak

## After Daybreak Thursday



Higher Threat for Severe Storms →

### What:

- Widespread, squall line, may be weakening nearing I-75

### When:

- From daybreak until late afternoon across the region.

### Hazards:

- 60 to 70 mph damaging thunderstorm wind gusts
- A few tornadoes
- Hail up to 1 inch possible.

Minimal  
Threat

High  
Threat

Damaging  
Wind



Hail



Tornadoes



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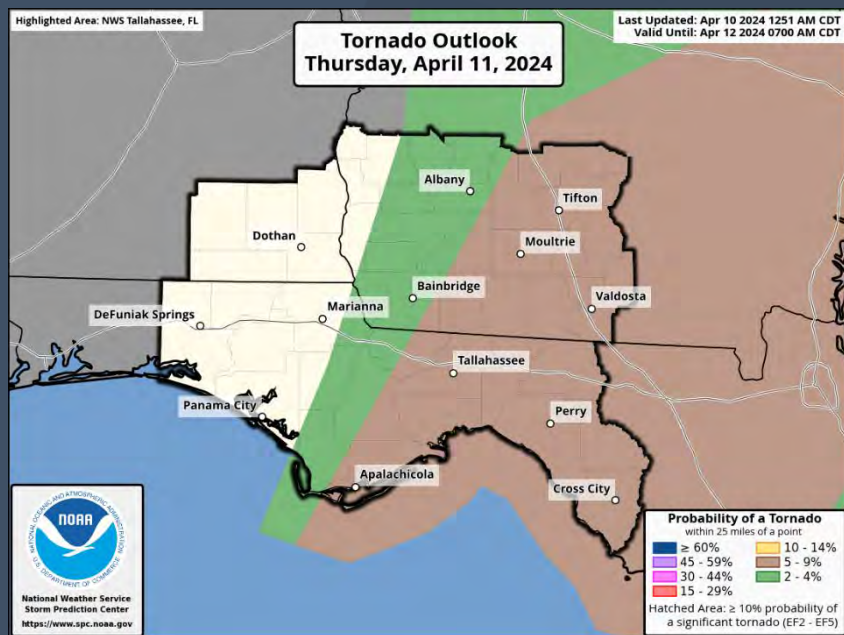
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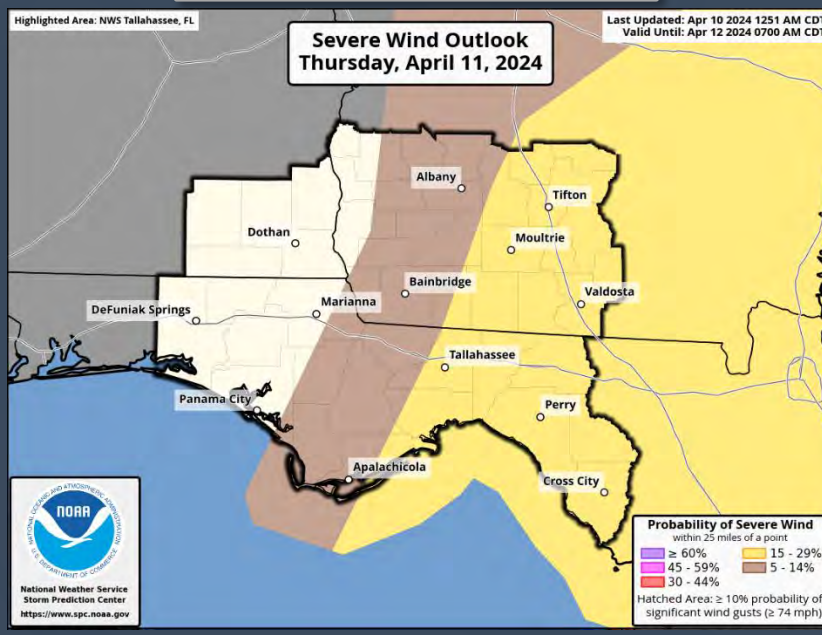
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# Individual Hazards – After Daybreak Thursday

## Tornado Potential



## Damaging Wind Potential



## Hail Potential



**Note – significant areas (hatched) imply strong tornadoes and winds gusts in excess of 74 mph.**



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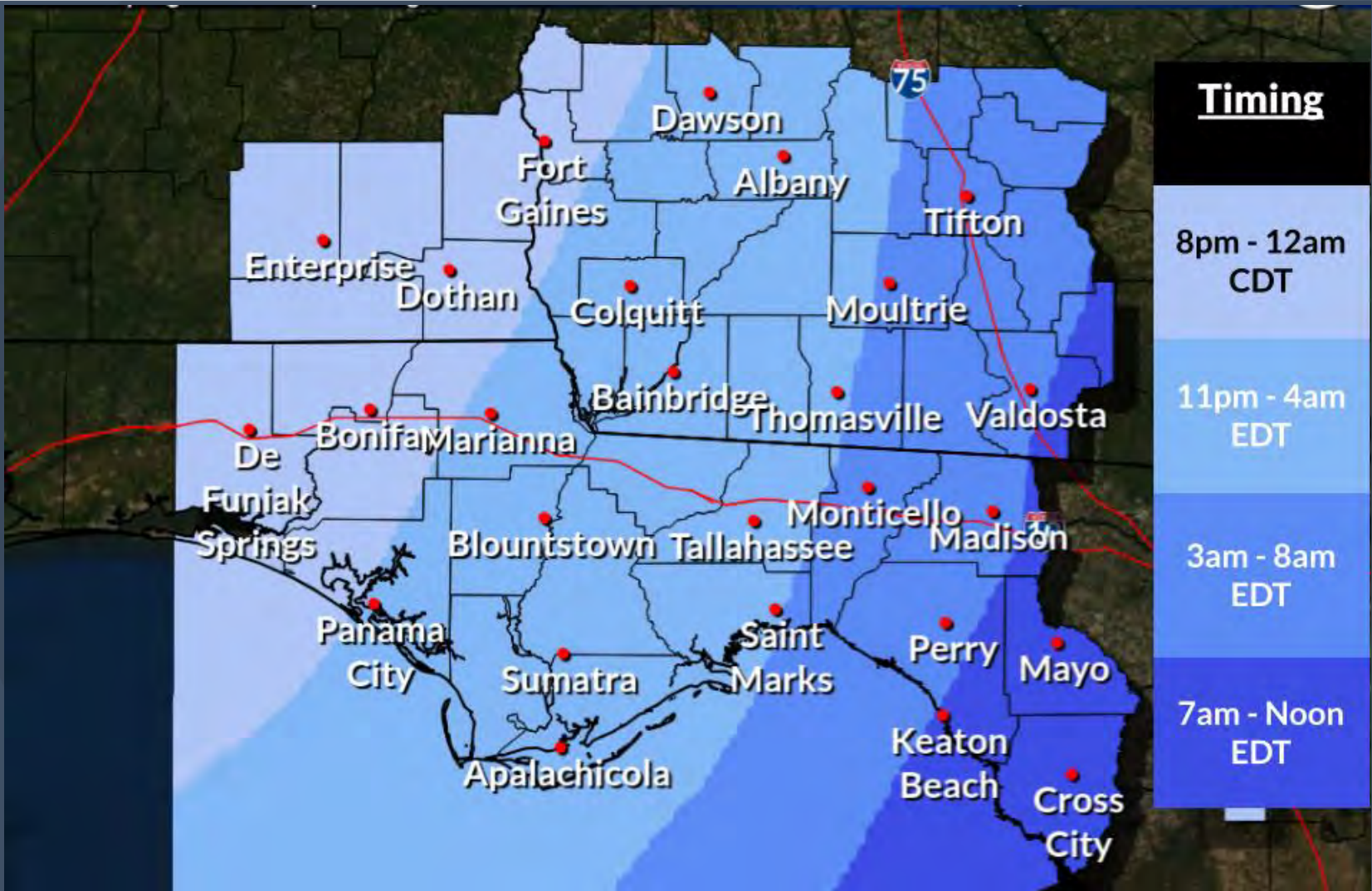
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# Second Round - Intense Squall Line Arrival Times

Wednesday evening into Thursday morning



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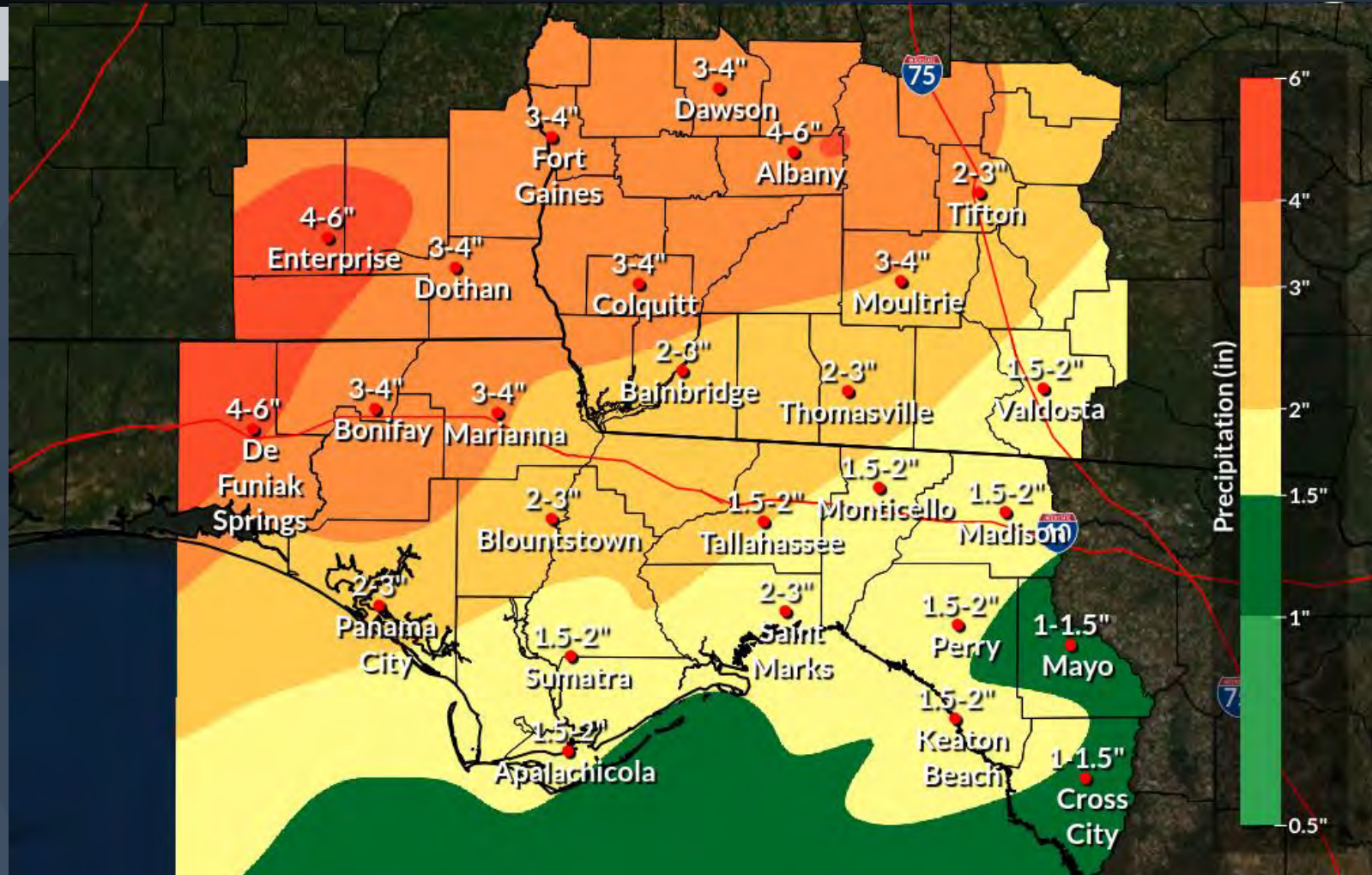


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# Average Rainfall Amounts



Isolated heavier amounts are expected. Flash flooding is a considerable concern, especially in the FL Panhandle, SE Alabama and Southwest Georgia.



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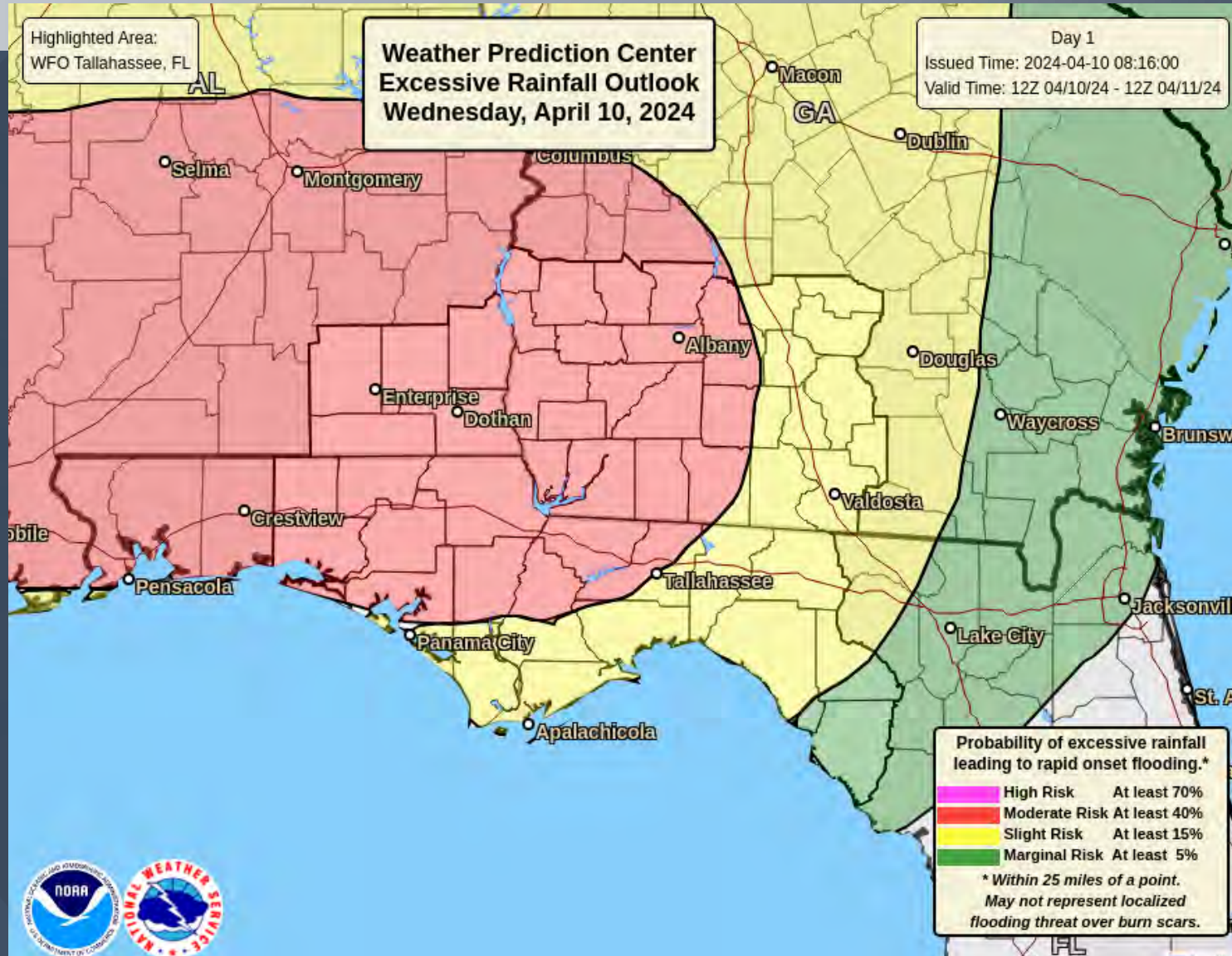


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# Excessive Rainfall Risk



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# Flood Watch – Starting Late Tonight



Source: Esri, Maxar, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AeroGRID, IGN, and the GIS User Community



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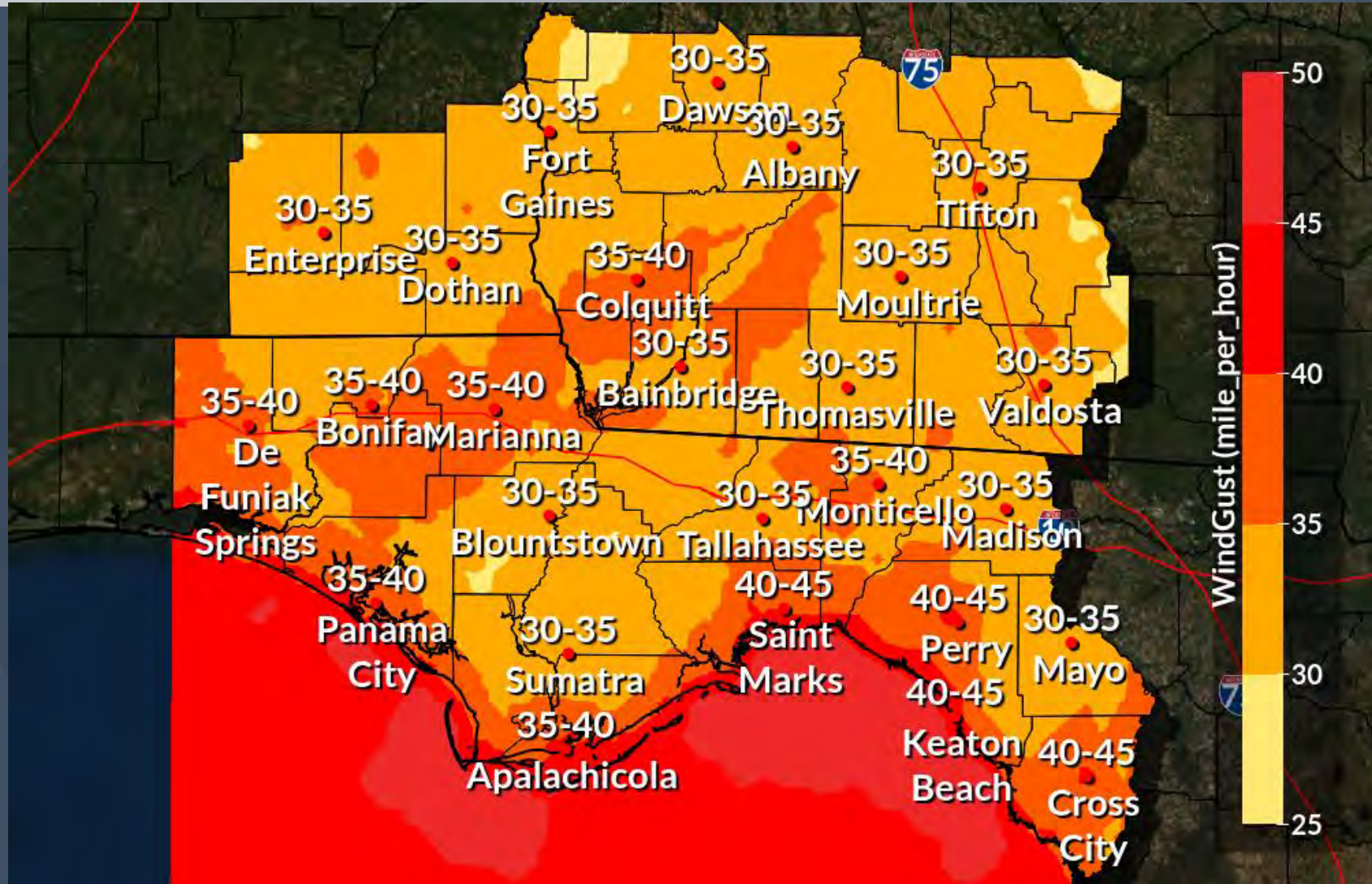
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# Non-Thunderstorm Sustained Winds and Gusts

Late Tonight and into Thursday



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# Coastal Flood Threat

Late Monday night through Tuesday

## What:

- Minor flooding along the Emerald Coast through Carrabelle
- Potentially moderate flooding east of Carrabelle across coastal Apalachee Bay

## When:

- Early Thursday morning through Thursday Afternoon

Note: peak water levels will occur around the time of high tide early Thursday morning and again Thursday afternoon – more so in Taylor and Dixie County.

We'll be looking at whether coastal flood advisories or warnings are needed later this afternoon.





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- \* Hail.

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### Impacts:

- \*Numerous to widespread power outages, structural damage (some significant), beach erosion, minor river flooding.







# Questions?

**Our next webinar will be at 230 pm ET  
(130 pm CT) Wednesday Afternoon**

- Call us at anytime
- You can reach out to us on Slack as well!

