

# NWS JAX Lunch-and-Learn Series

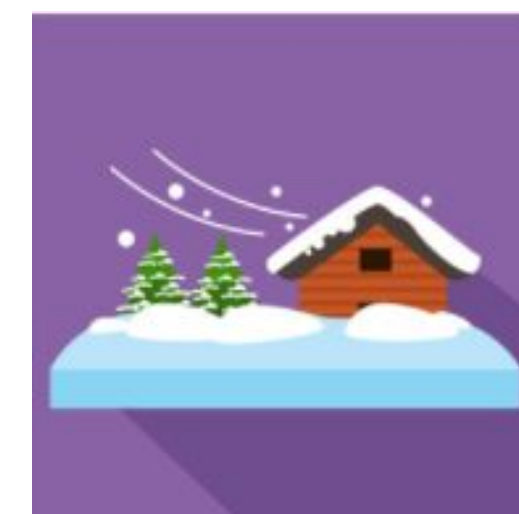
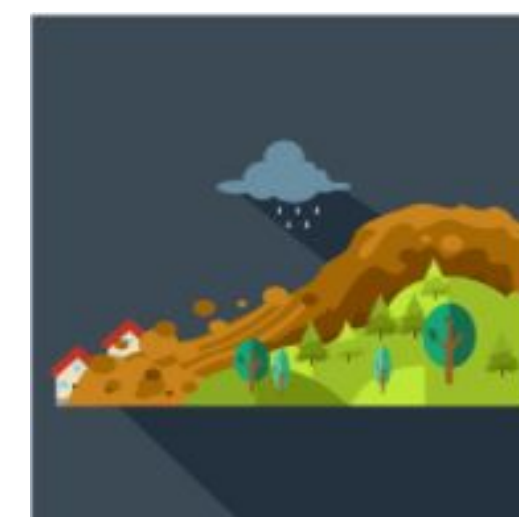
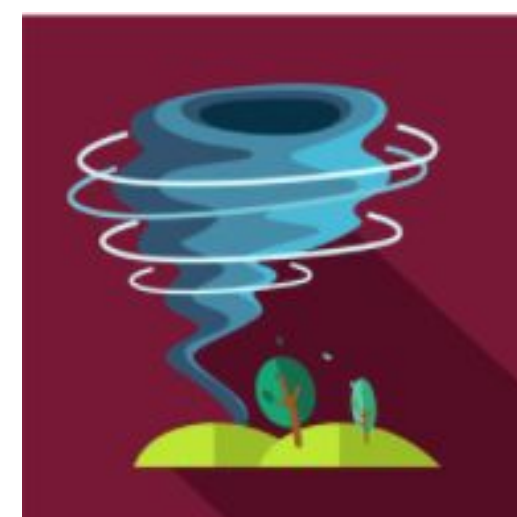
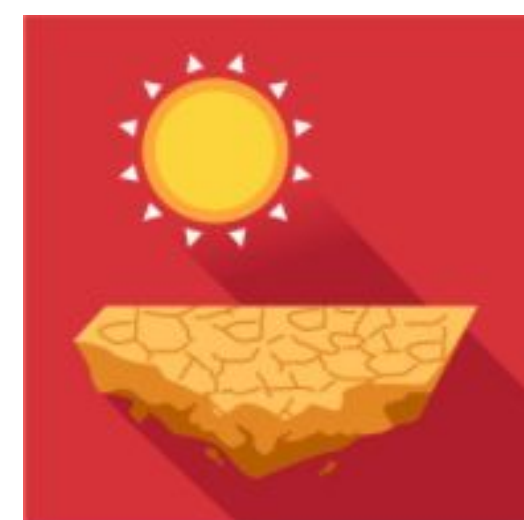
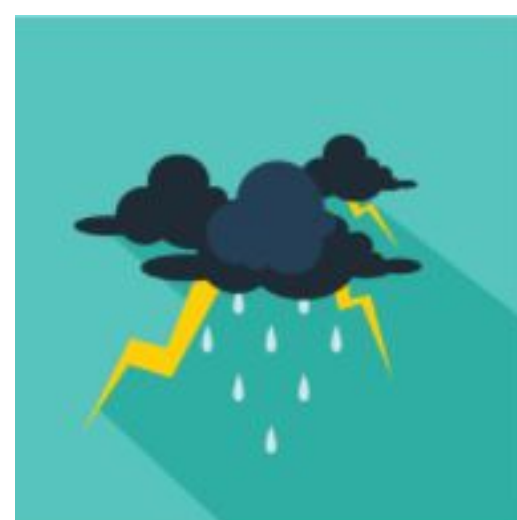
## April 2025

Angie Enyedi  
[angela.enyedi@noaa.gov](mailto:angela.enyedi@noaa.gov)

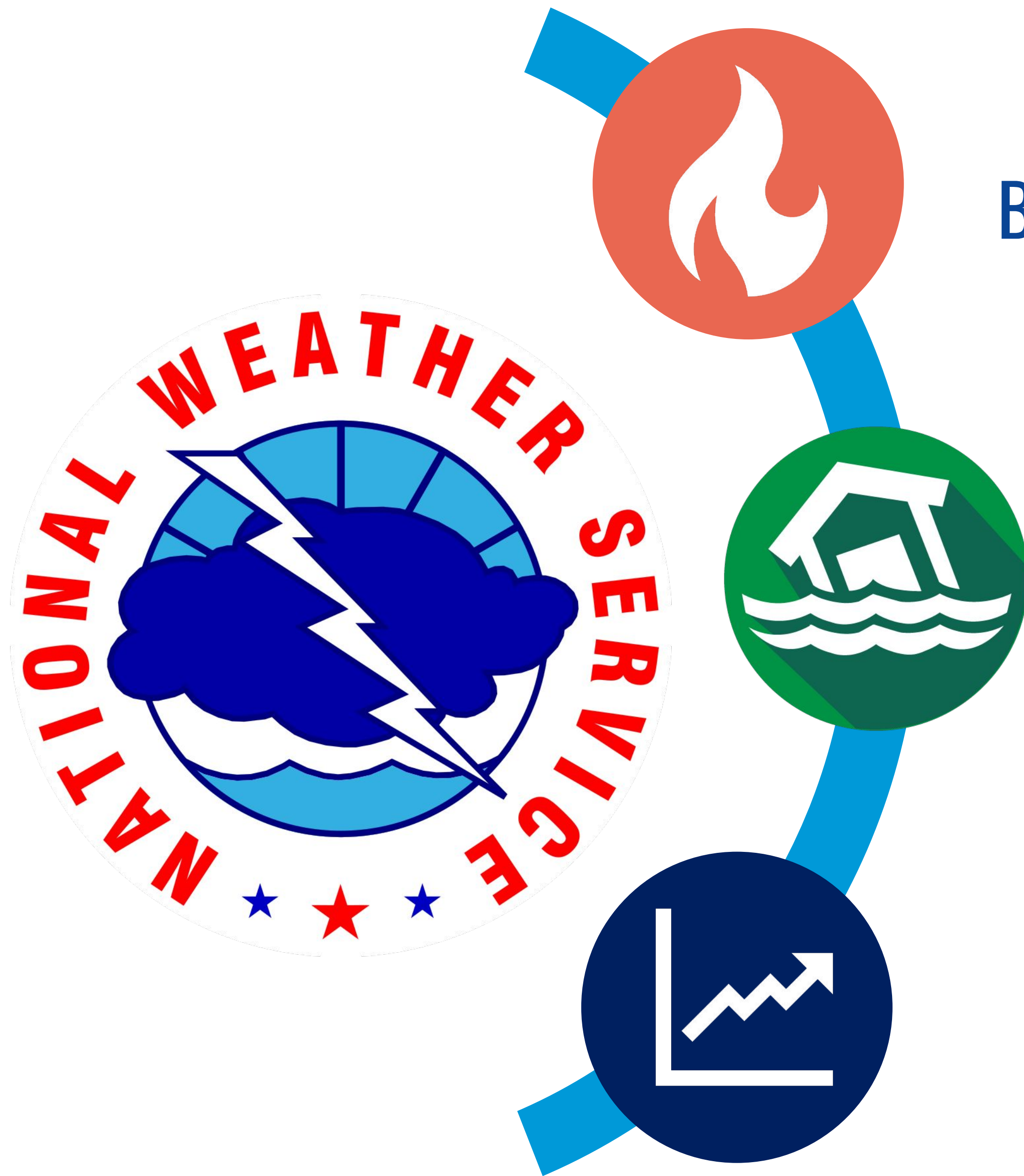
Alex Boothe  
[alexander.boothe@noaa.gov](mailto:alexander.boothe@noaa.gov)

Kip Bricker  
[kip.bricker@noaa.gov](mailto:kip.bricker@noaa.gov)

Ben Nelson  
[ben.nelson@noaa.gov](mailto:ben.nelson@noaa.gov)



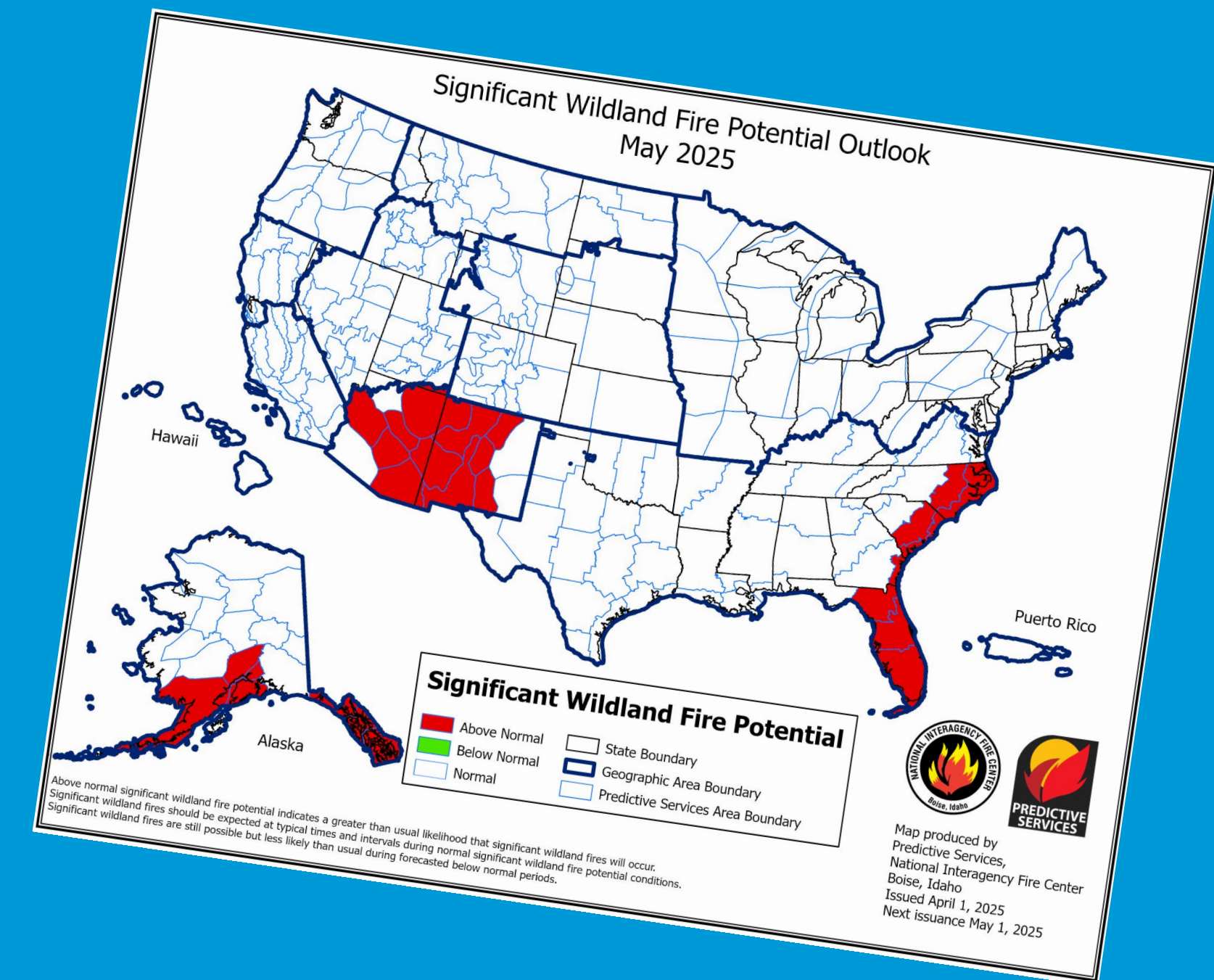




## Fire Weather: Basics, Tools, & Outlook

## Flood Risk Tools & Products

## Climate Trend Tools





# Fire Weather: Basics, Tools, & Outlook



# Wildfire Ingredients

## Weather

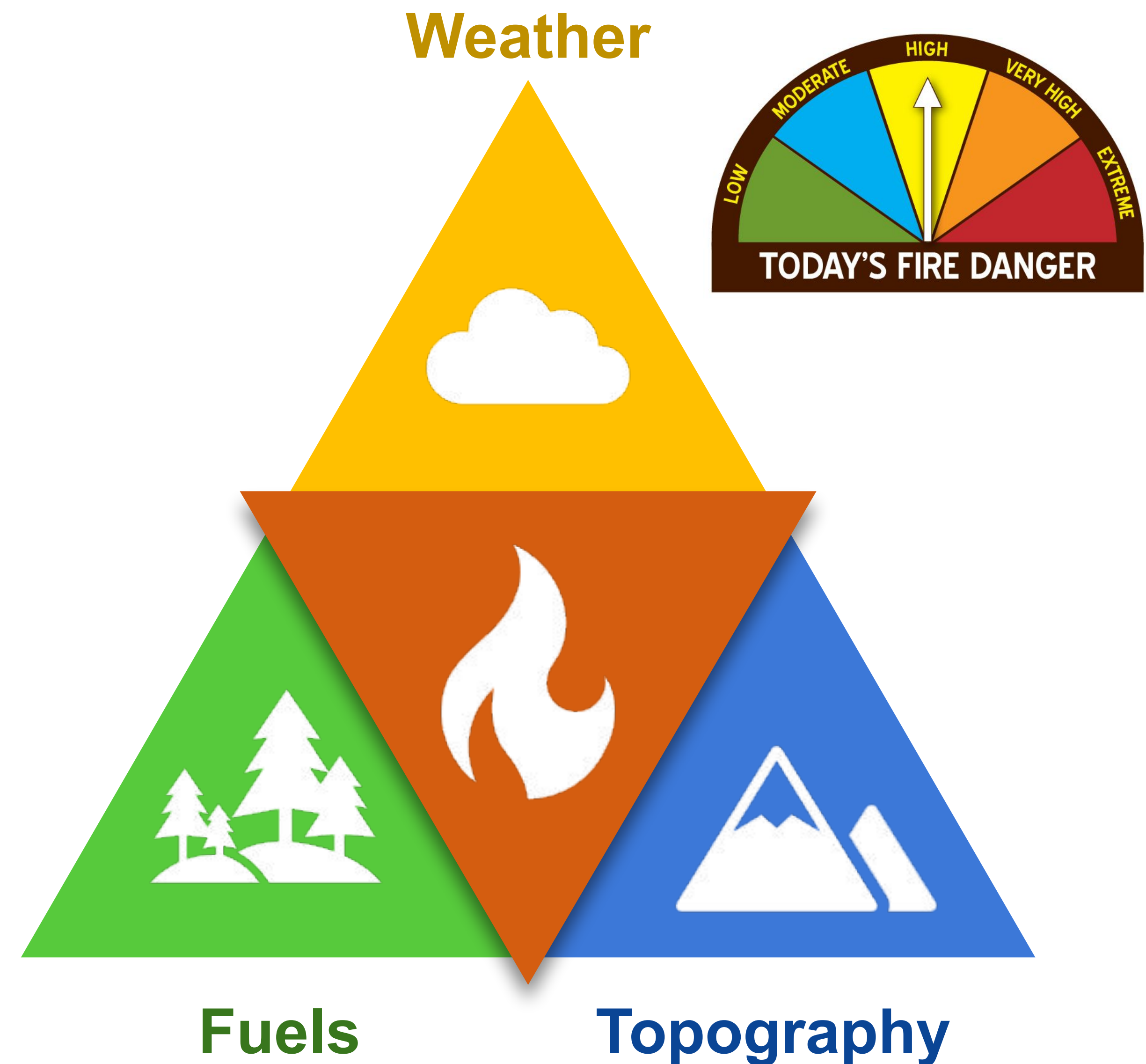
Wind, Humidity, & Instability

## Fuels

Types, Dryness, Load, Continuity

## Topography

Fuel types, Wind Patterns, Aspects



**NATIONAL WEATHER SERVICE**

# Wildfire “Seasonality”

 **Winter**  
[ Jan - Feb ]

## Dry Season

frosts & freeze  
events dry out fine  
fuels (grasses)  
Prescribed Fire  
Activity Increases to  
control Fuel Loading

 **Spring**  
[ Mar - May ]

## Peak Fire Activity

Dry fuels, late season  
fronts, Warming Temps

 **Summer**  
[ Jun - Sep ]

## Rainy Season



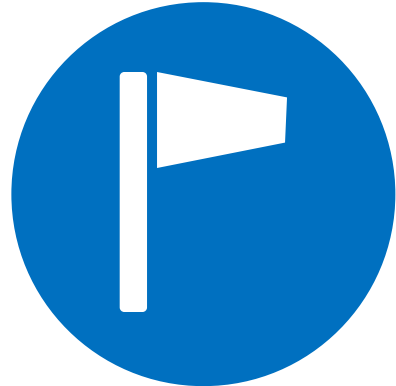

High humidity and daily  
thunderstorms reduce  
wildfire risk

 **Fall**  
[ Oct - Dec ]

## Secondary Peak

If drier than usual  
conditions close out  
summer, a secondary  
peak in fire activity can  
occur

# Wildfire: Key Weather Variables

-  **High Temperatures** | Dry out fuels quickly and increase in fire intensity
-  **Low Humidity** | Leads to drier fuels and increases the rate of fire spread
-  **Wind** | Drives fire spread, spotting potential (distances), sudden wind direction changes affects firefighter safety
-  **Atmospheric Stability** | Unstable conditions (rising air) helps ventilate fires and can promote extreme fire behavior

# Communicating Critical Fire Weather Conditions

## 1-3+ Days Before

### Fire Weather Watch

- Low Humidity, Strong Winds and Receptive Fuels are **LIKELY** to align across an area
- Issued by individual Fire Zones

## 12-24 hours Before

### Red Flag Warnings

- Low Humidity, Strong Winds and Receptive Fuels **EXPECTED**
- Allows lead time for land management agencies to provide mutual aid, pre-position assets, and stage resources





# What are the Red Flag thresholds?

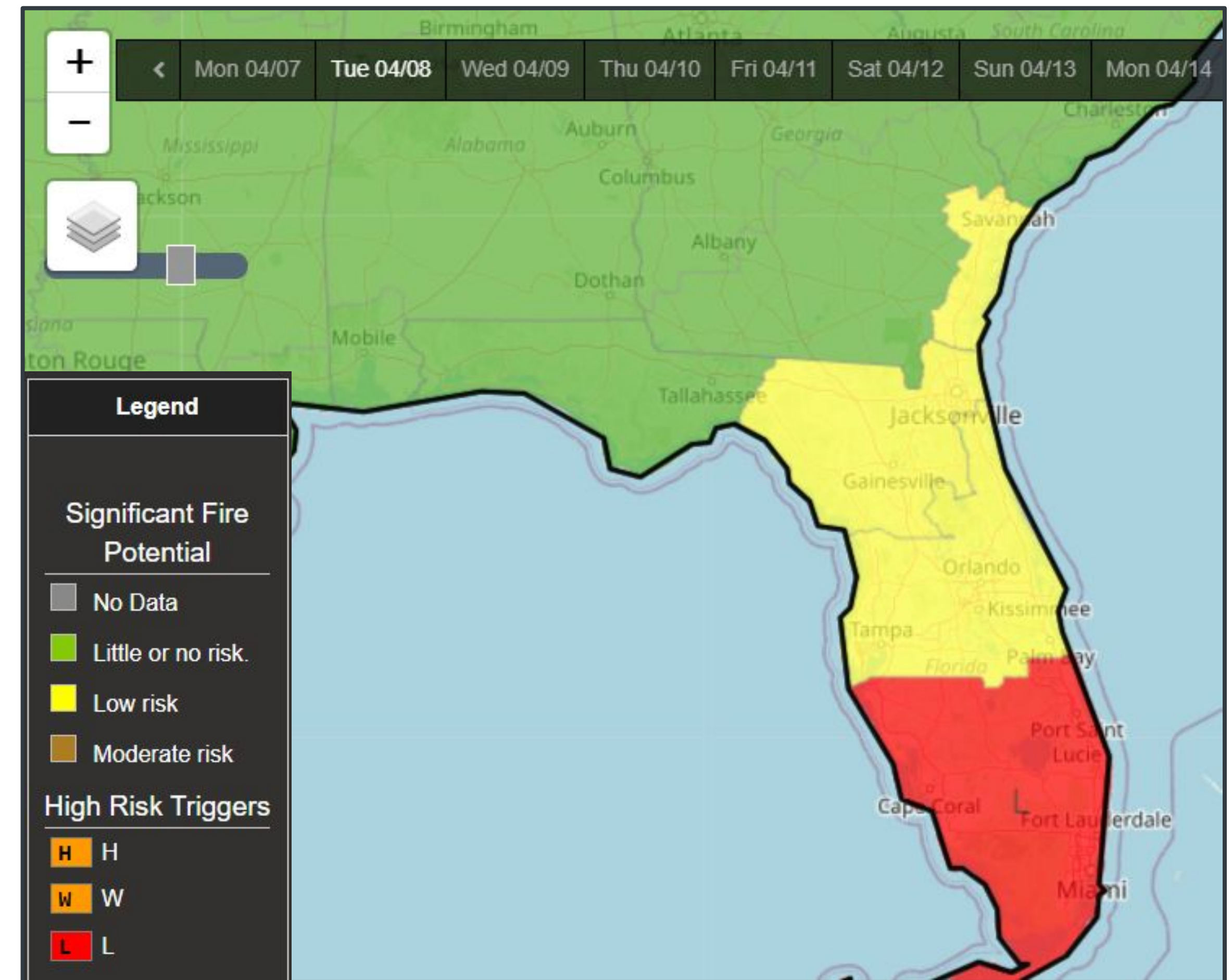
## Thresholds Vary Regionally

### Southeast GA

- Wind: **15+ MPH or Gusts 25+ mph**
- Humidity: **25% or lower**
- Fuel: **10-hour Fuel Moisture under 6%**

### Northeast FL

- Wind: **15+ MPH (gusts not considered)**
- Humidity: **28% or lower**
- Fuel: **Fire Potential “Moderate” or “High” Risk**





# Available Fire Weather Intelligence (at your disposal)

## Fire Weather Hub

NWS Jacksonville Fire Weather Support

Immediate Support

NWS JAX Operations  
904-741-4370 extension 1

NWSChat2.0 Interface  
#wfo-jacksonville-fl  
About [NWSChat2.0](#)

NWS JAX Fire Forecasts

[Fire Weather Forecast](#)  
[SPOT Forecast Request](#)  
[Fire Weather Dashboard](#)  
[Fire Weather Watch & Warning](#)  
[Fire Danger Rating Input](#)  
[Point Forecasts for RAWs](#)  
[Weather Activity Planner](#)  
[NWS Jacksonville Briefing](#)

Forest Point Forecasts

[Osceola NF \(Big Gum Swamp\)](#)  
[Ocala NF \(West Lake George\)](#)  
[Cumberland Island NS \(High Pt\)](#)  
[Okefenokee NWR \(Jones Island\)](#)  
[Guana River WMA \(Pine Island\)](#)  
[Jennings Forest \(Deep Creek\)](#)

Guidance & Support

State & Federal Agency Links

[Florida Annual Operating Plan](#)  
[Florida Forest Service Fire Weather](#)  
  
[Georgia Annual Operating Plan](#)  
[Georgia Forestry Commission Fire Weather](#)  
  
[National Interagency Coordination Center](#)  
[Southern Area Coordination Center](#)  
[InciWeb - Incident Specific Info](#)

Fire Weather Tools

[Drought Monitor](#)  
[HRRR Smoke Model](#)  
[Surface Observations](#)  
[JAX Fire Weather "Snooper"](#)  
[Fire Mapping](#)  
  
[Forest Service 7-Day Significant Fire Potential](#)

<https://www.weather.gov/jax/fire>  
Forecasts, Guidance, Fuel, and Outlook intel

## Fire Weather Dashboard

Penney Farms, FL  
Weekly Summary

[Download Weekly Summary as PNG](#)

	Tue Apr 8	Wed Apr 9	Thu Apr 10	Fri Apr 11	Sat Apr 12	Sun Apr 13	Mon Apr 14	Tue Apr 15
Max Temp, °F	76	76	79	79	73	76	84	88
Min Temp, °F	58	52	55	57	53	48	49	56
Max RH, %	83	93	100	93	83	77	96	90
Min RH, %	34	37	49	45	35	32	30	31
Max Dewpoint, °F	53	55	60	59	54	48	52	58
Min Dewpoint, °F	45	48	54	55	42	41	47	51
Max Wind, mph	9	16	6	13	10	6	5	8
Min Wind, mph	3	3	2	2	5	2	1	2
Max Wind Gust, time/dir.	5 PM ↘	4 PM ↘	12 AM ↗	3 PM ↗	2 PM ↗	10 AM ↗	2 PM ↗	4 PM ↗
Max Wind Gust, mph	14	18	10	20	16	9	7	13
Min Wind Gust, mph	6	6	3	3	7	3	2	3
Max Cloud Cover, %	44	42	25	45	22	6	8	19
Min Cloud Cover, %	10	6	13	9	2	0	1	6
Max Prob. of Precip., %	0	2	6	39	3	0	1	2
Max LAL	1	1	1					
Max Mixing Height, ft	4700	5800	6100					
Min Mixing Height, ft	450	400	400					
Max Ventilation Rate, kt-ft	33	58	47					
Min Ventilation Rate, kt-ft	3	3	3					
Max LVORI	5	6	8					

<https://www.weather.gov/jax/fire>  
Located under Fire Weather Support

## Probabilistic Fire Weather Intel

Map Domain

Temperatures

Severe Risk

Flood Risk

Fire Risk

High Wind Risk

Marine

Links

Today

Tomorrow

Wednesday

Thursday

Friday

Saturday

Sunday

Minimum Relative Humidity - Today

Valid: 4 AM EDT Monday 5/5 to 4 AM EDT Tuesday 5/6

Weather Forecast Office Jacksonville, FL

Issued May 05, 2025 8:21 AM EDT

<https://www.weather.gov/jax/graphics>  
Assess Wind and Low Humidity Chance

NATIONAL WEATHER SERVICE

Department of Commerce // National Oceanic and Atmospheric Administration // 9





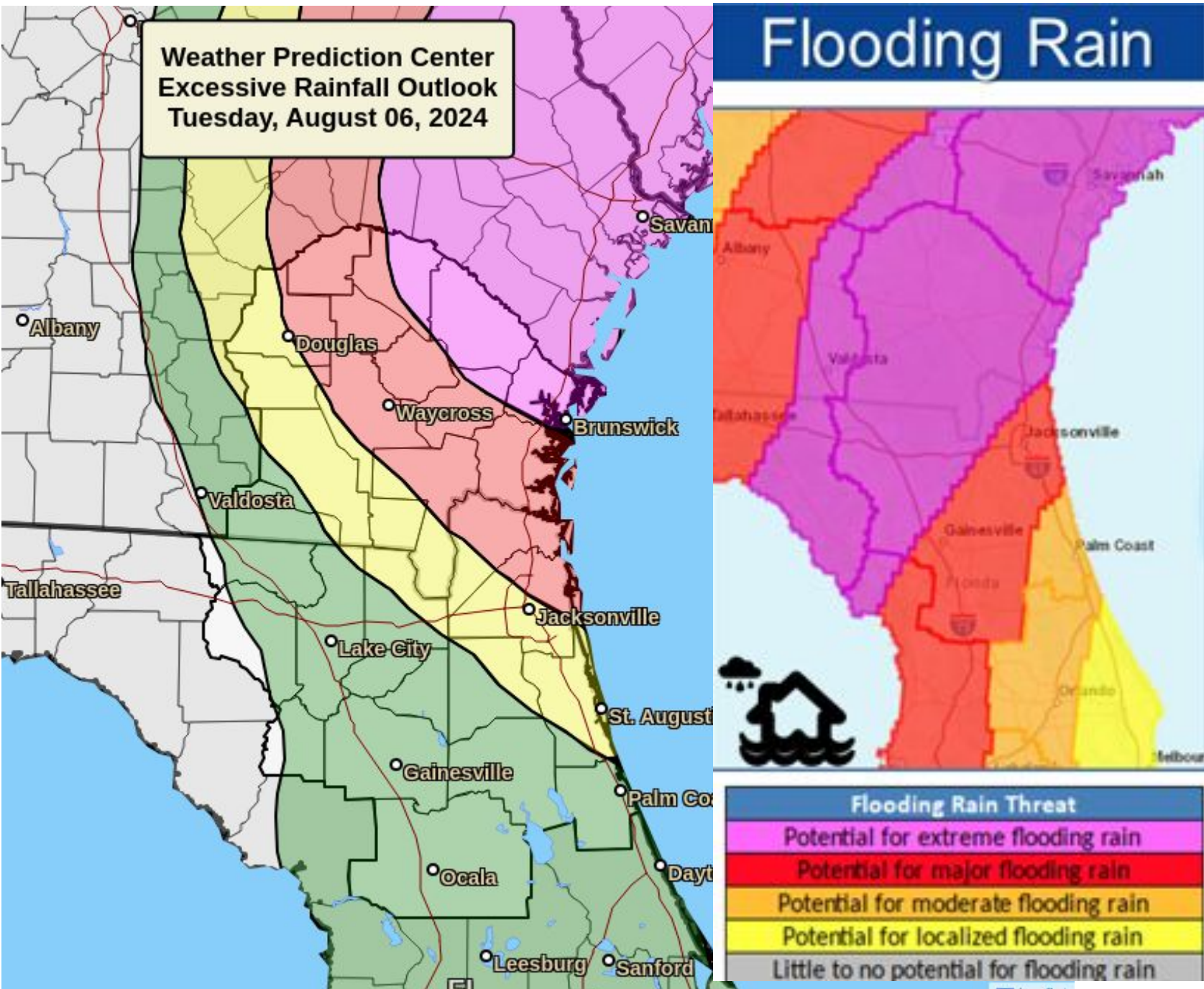
# Flood Risk Tools & Products



# Communicating Flooding Rainfall Risk

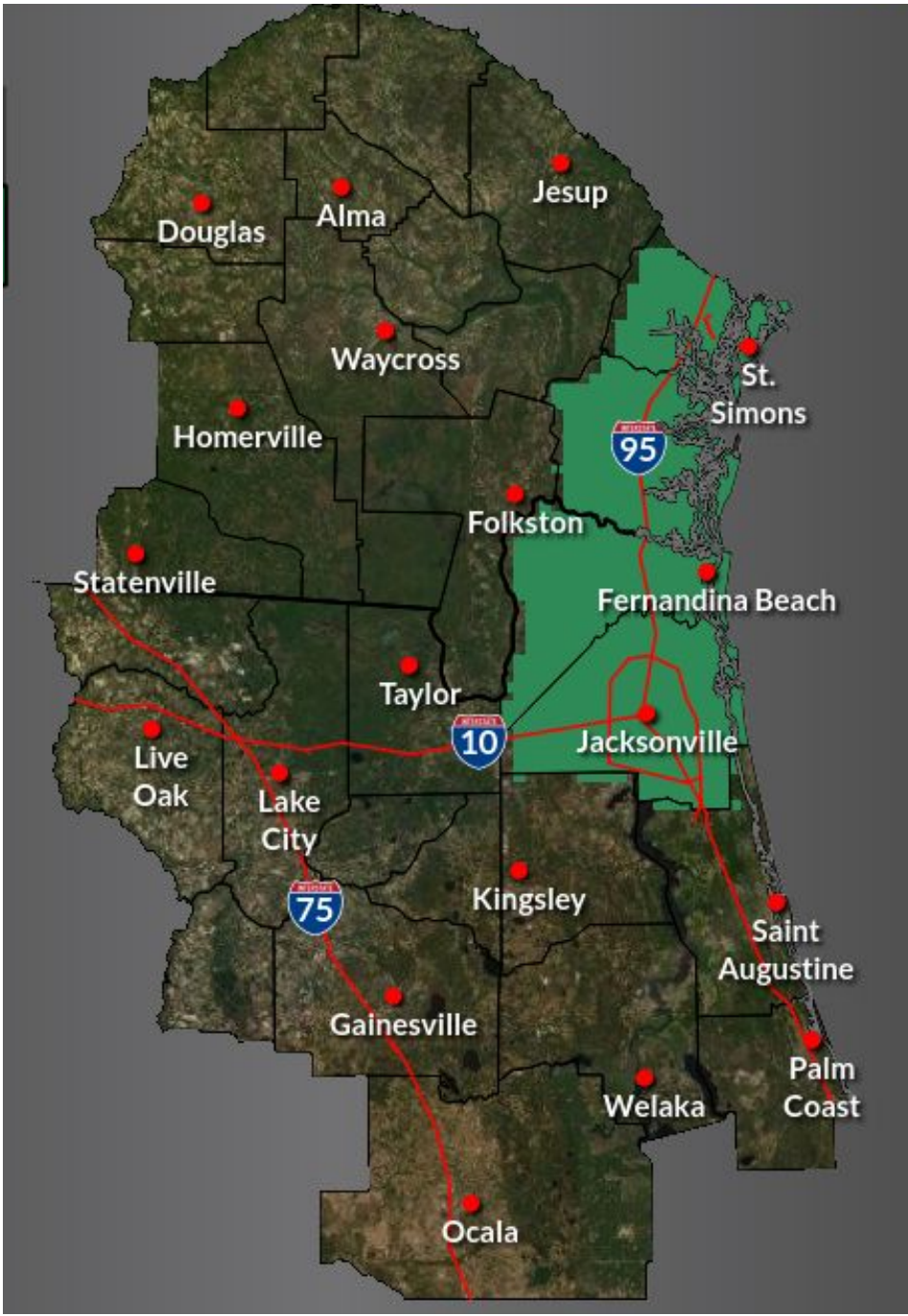
## Days in Advance

### Excessive Rainfall Outlooks



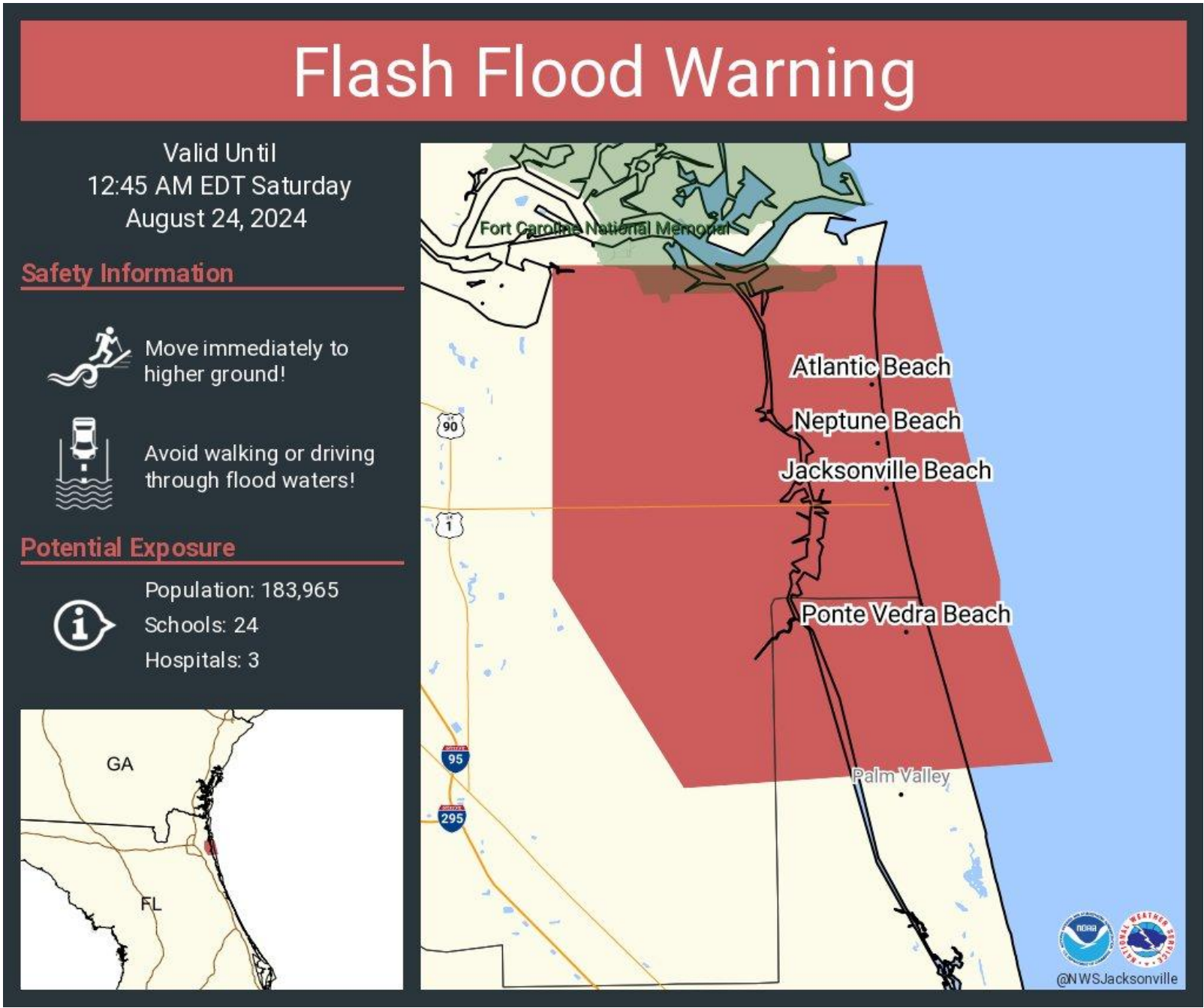
## 1-2 Days in Advance

### Flood Watches



## Imminent Flooding

### Flood Warnings



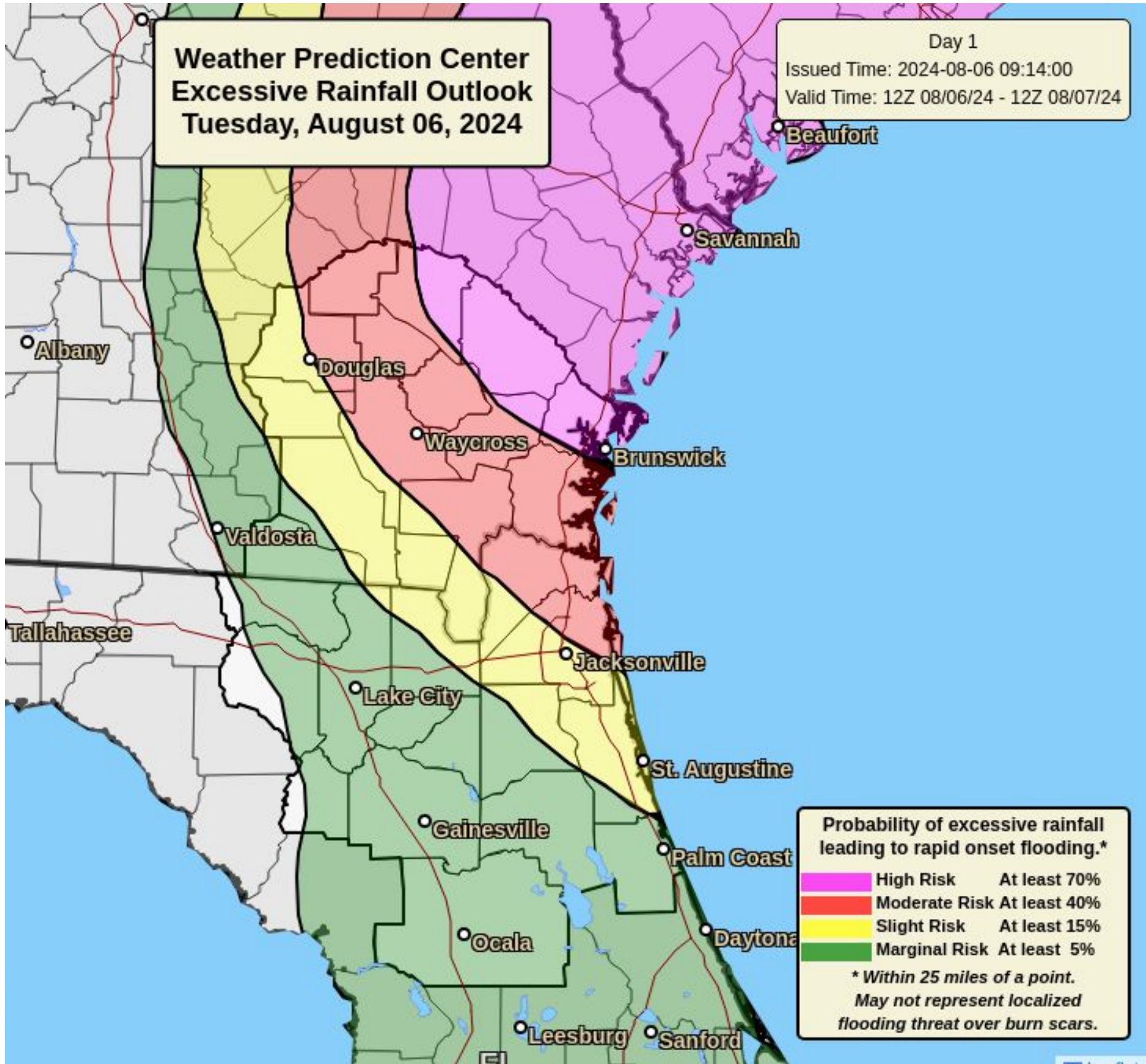








# Excessive Rainfall Outlooks

<https://www.wpc.ncep.noaa.gov>

Only issued 19 times for NWS JAX area over past 8 years

Only issued 6 times for NWS JAX area over past 8 years (all for Tropical Cyclones)



Understanding WPC Excessive Rainfall Risk Categories				
No Area/Label	MARGINAL (MRGL)	SLIGHT (SLGT)	MODERATE (MDT)	HIGH (HIGH)
Flash floods are generally not expected.	Isolated flash floods possible	Scattered flash floods possible	Numerous flash floods likely	Widespread flash floods expected
	Localized and primarily affecting places that can experience rapid runoff with heavy rainfall.	Mainly localized. Most vulnerable are urban areas, roads, small streams and washes. Isolated significant flash floods possible.	Numerous flash flooding events with significant events possible. Many streams may flood, potentially affecting larger rivers.	Severe, widespread flash flooding. Areas that don't normally experience flash flooding, could. Lives and property in greater danger.
<a href="https://www.wpc.ncep.noaa.gov">www.wpc.ncep.noaa.gov</a> @NWSWPC				
Flash flooding near me?	Flash Flooding			
	NO Flash Flooding			
  WEATHER PREDICTION CENTER				



# Flood Products

Product	Meaning & Issuance Timing	WEA Activation
Flood Advisory	<ul style="list-style-type: none"><li>Elevated stream flow, ponding water, rainfall accumulation warrants public attention – nuisance flooding</li><li>Imminent hazard</li></ul>	NO
Flood Watch	<ul style="list-style-type: none"><li>Elevated confidence of Flash Flood Guidance being exceeded</li><li>Issued hours to days in advance of threat – confidence driven</li></ul>	NO
Flood Warning	<ul style="list-style-type: none"><li>Rainfall flooding imminent or expected with a more gradual accumulation of flood water that threatens property</li><li>Flooding imminent ☐ seek elevated shelter immediately</li></ul>	NO





# Flash Flood Warnings

**BASE**  
No WEA



**CONSIDERABLE**  
WEA  
1-2 Rescues



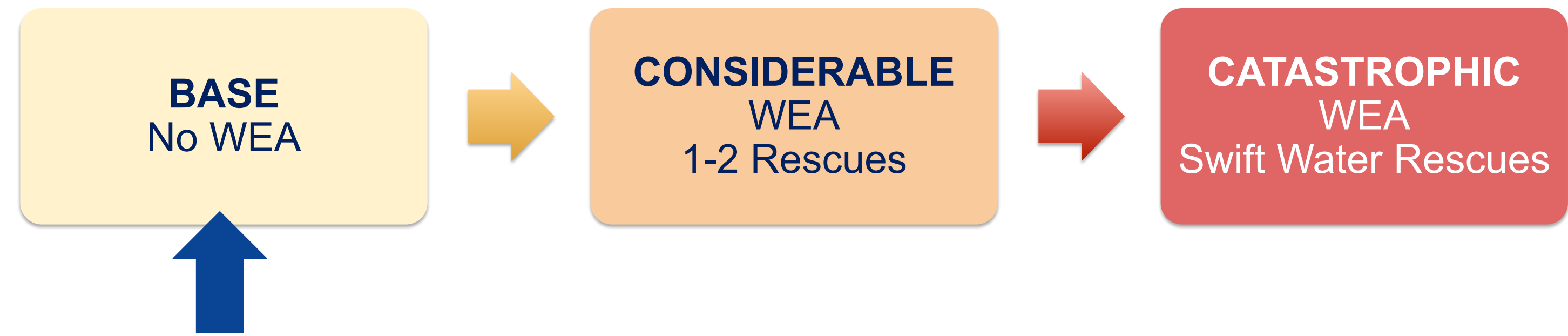
**CATASTROPHIC**  
WEA  
Swift Water Rescues

- Fast accumulation of water that threatens life & property
- Seek elevated shelter immediately
- Warning forecaster assigns flash flood severity - Coordination with emergency responders needed





# Flash Flood Warnings

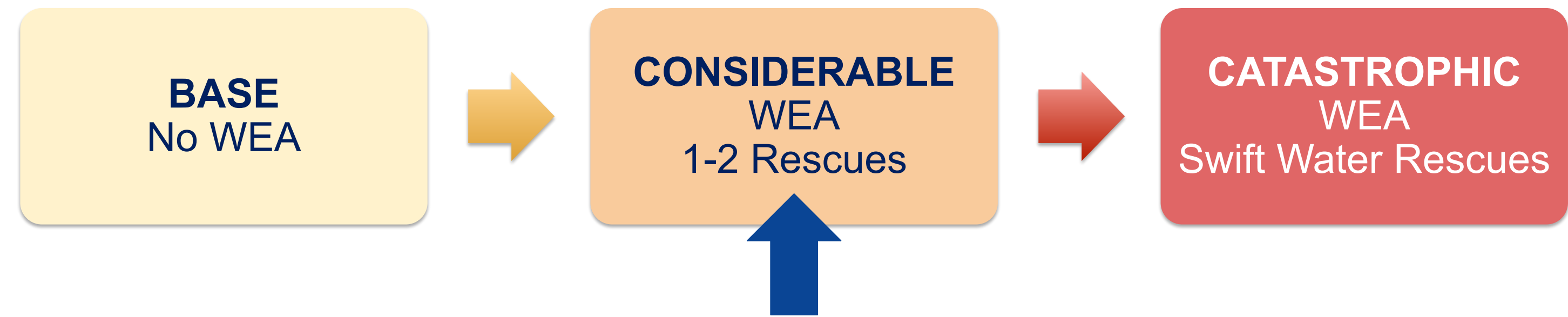


- Base Flash Flood Warning
- Rapid rise of flood water is expected to threaten life & property
- Does NOT Activate WEA





# Flash Flood Warnings



→ Considerable Tag: 1-2 Rescues

→ Activates WEA





# Flash Flood Warnings

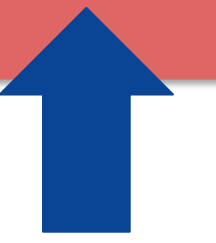
BASE  
No WEA



CONSIDERABLE  
WEA  
1-2 Rescues



CATASTROPHIC  
WEA  
Swift Water Rescues



- Catastrophic Tag: Rare, violent flash floods that place people in danger due to rapidly rising flood waters.
- Activates WEA
- If severe threat to life & catastrophic damage, can include phrase **FLASH FLOOD EMERGENCY**
- Examples: Multiple swift water rescues, stream gages rising to major levels, total dam failure

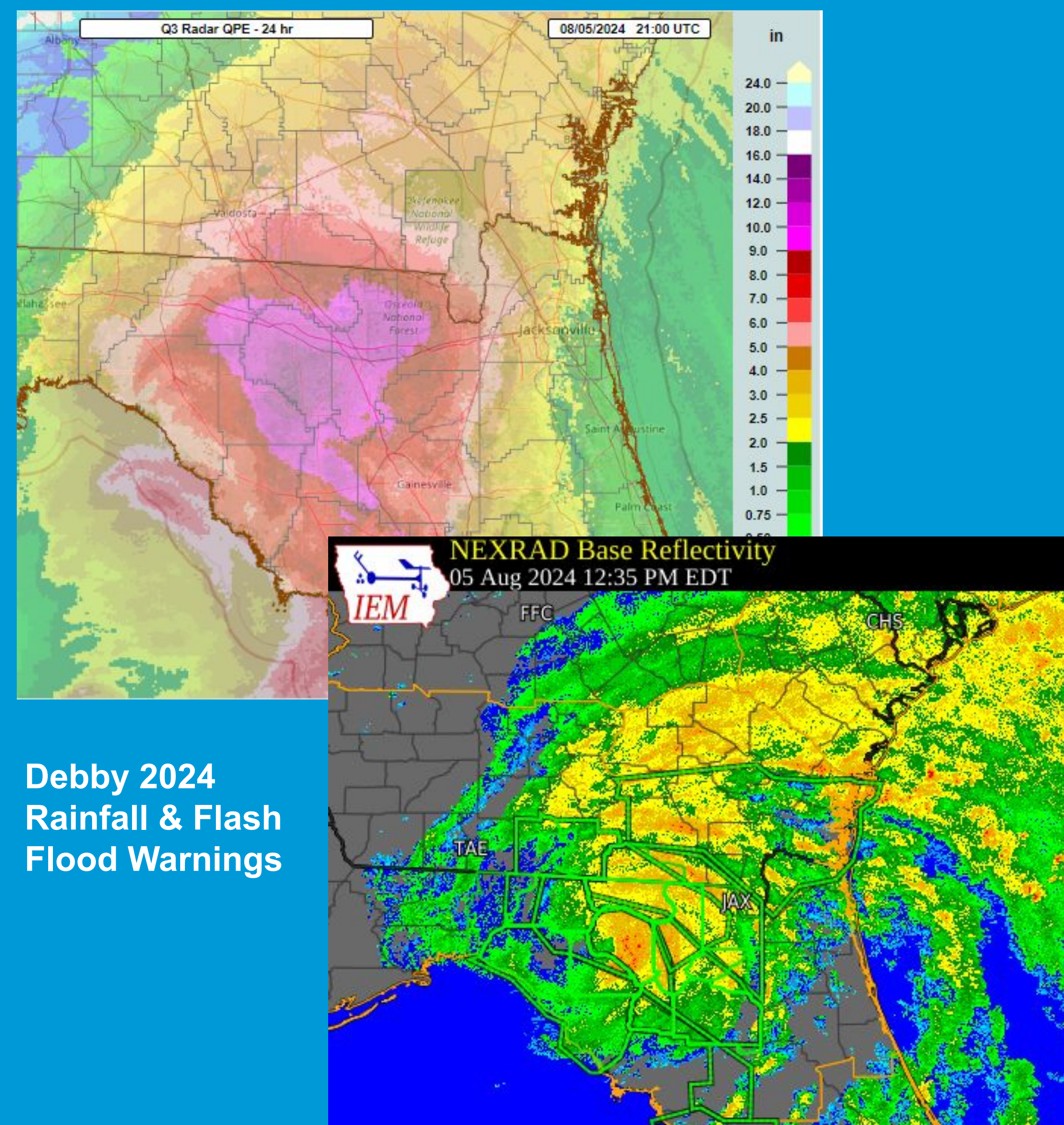


2024 Debby Flooding Rain Impacts  
Image c/o Jeff Davis EM



# Flash Flood Warnings: Issuance Paradigm

- New for 2025: NWS JAX will issue **Flash Flood** Warnings during Thunderstorm Events (in lieu of Flood Warnings)
- More logical ramp-up for life-threatening flash flooding and ability to utilize WEA
- Flood Warnings will still be used as needed for post-thunderstorm impacts and gradually receding flood Situations



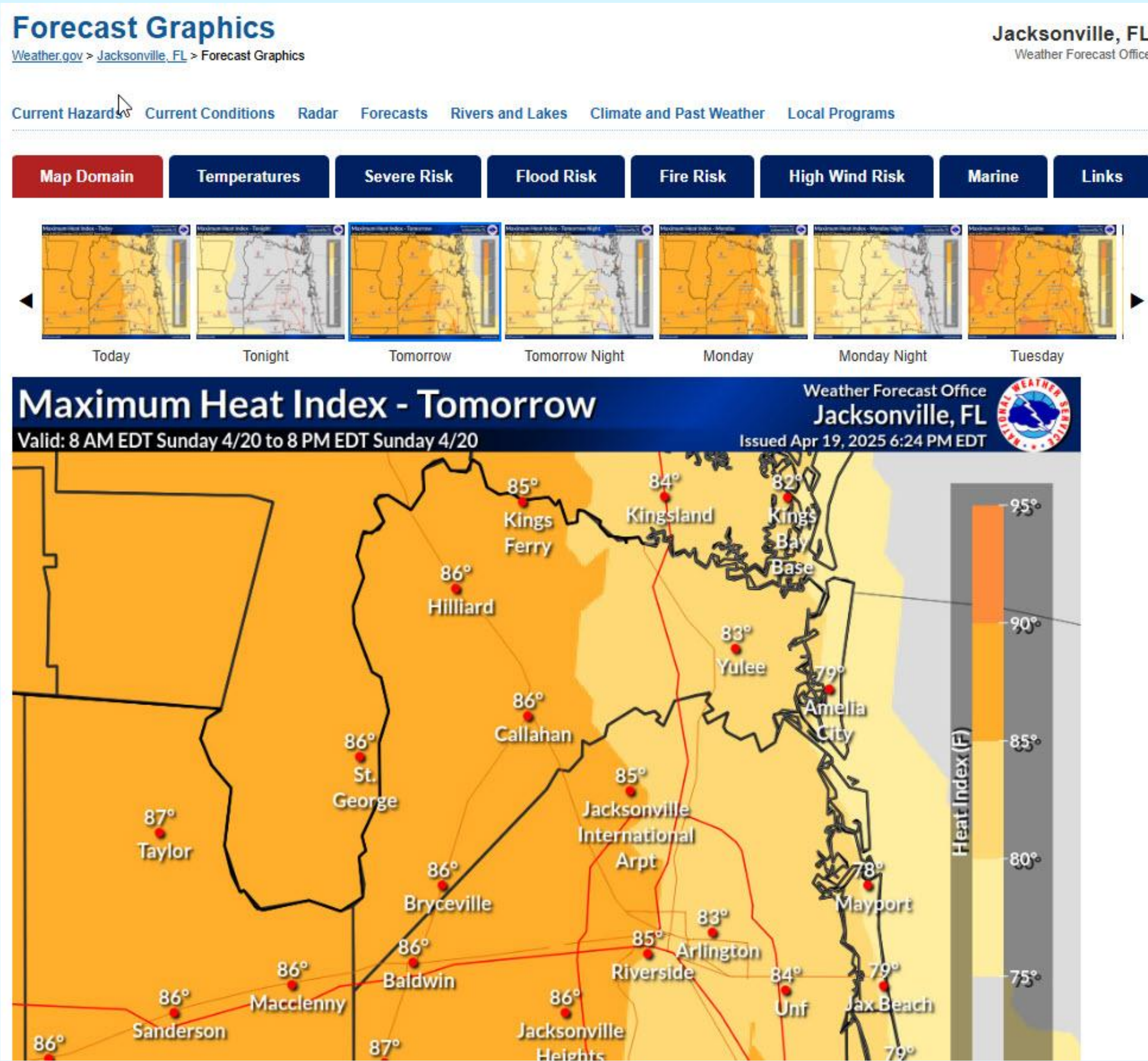
Debby 2024  
Rainfall & Flash  
Flood Warnings



# New NWS JAX Graphics Hub - regional & local



<https://www.weather.gov/jax/graphics>



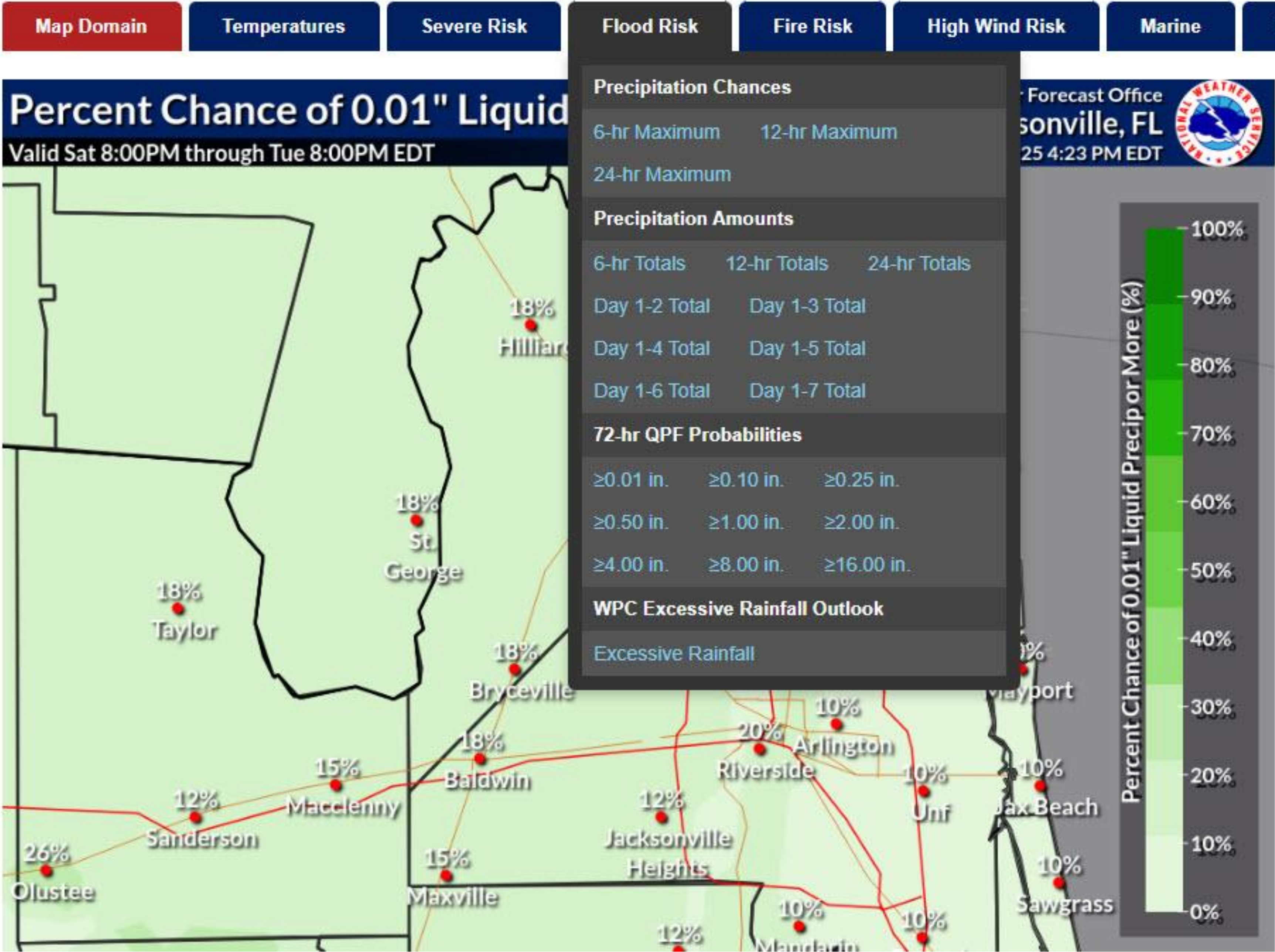
NATIONAL WEATHER SERVICE



# New NWS JAX Graphics Hub

JAX Graphics









# Climate Trend Tools

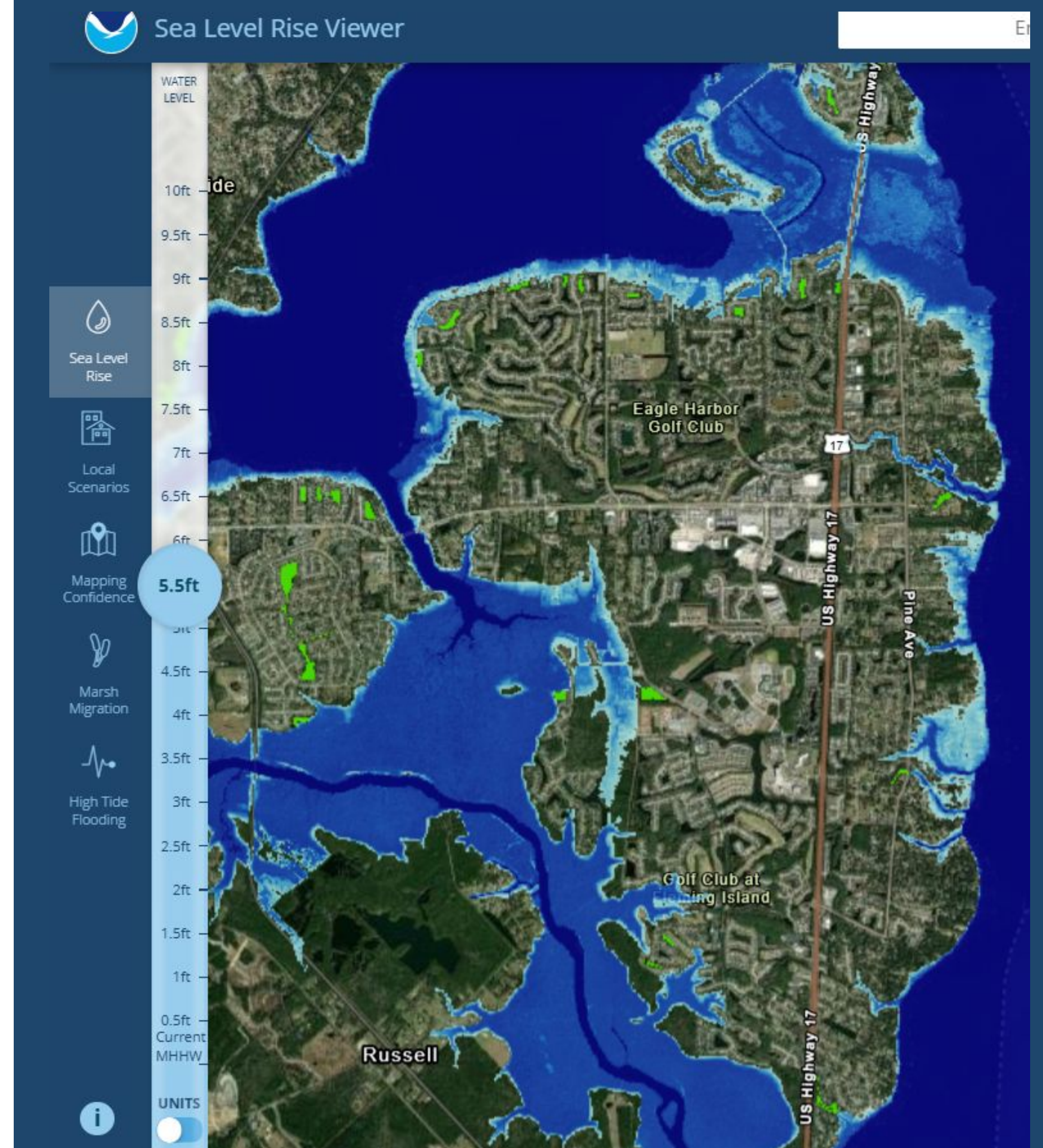


# Sea Level Rise Viewer

- Helps visualize “What Gets Wet” with coastal flooding & sea level rise
- Indication of storm surge inundation potential



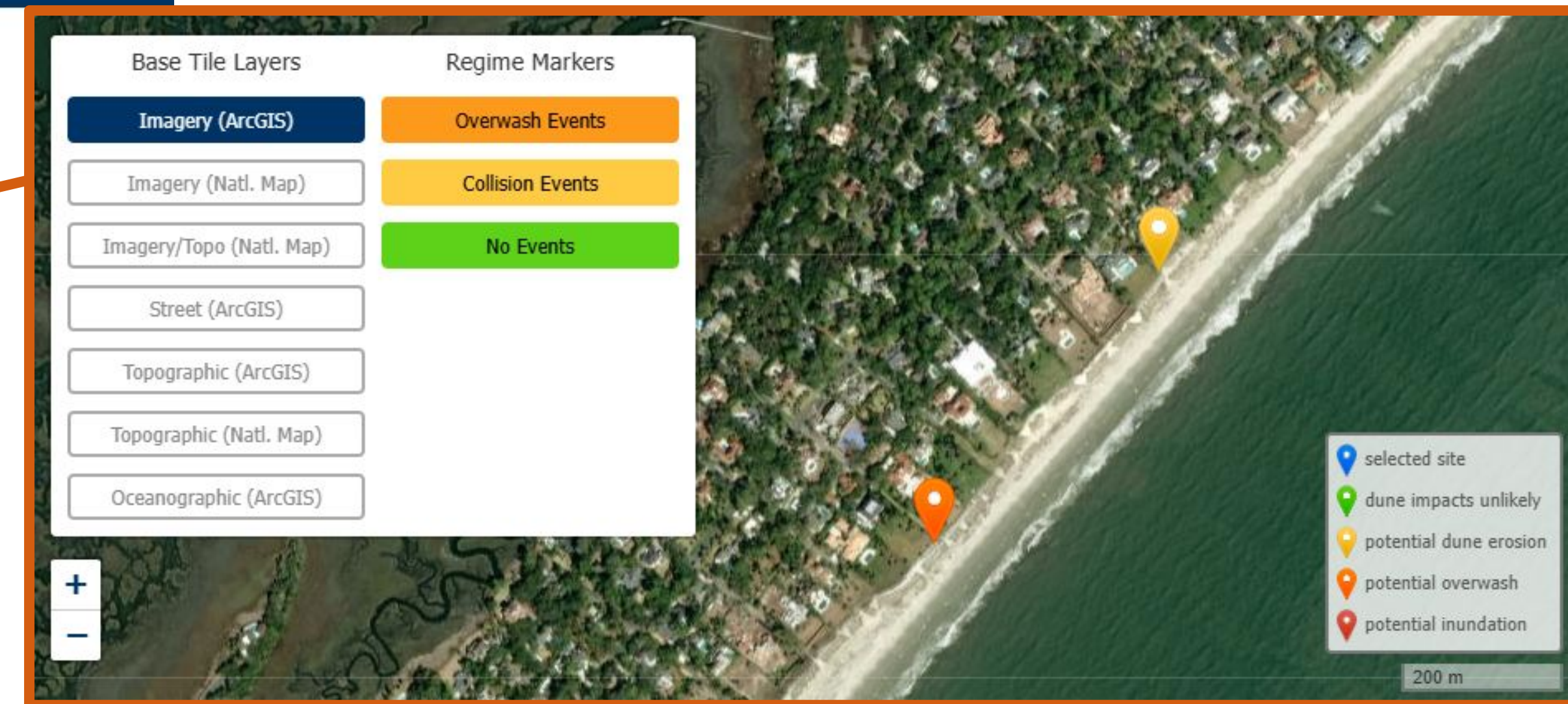
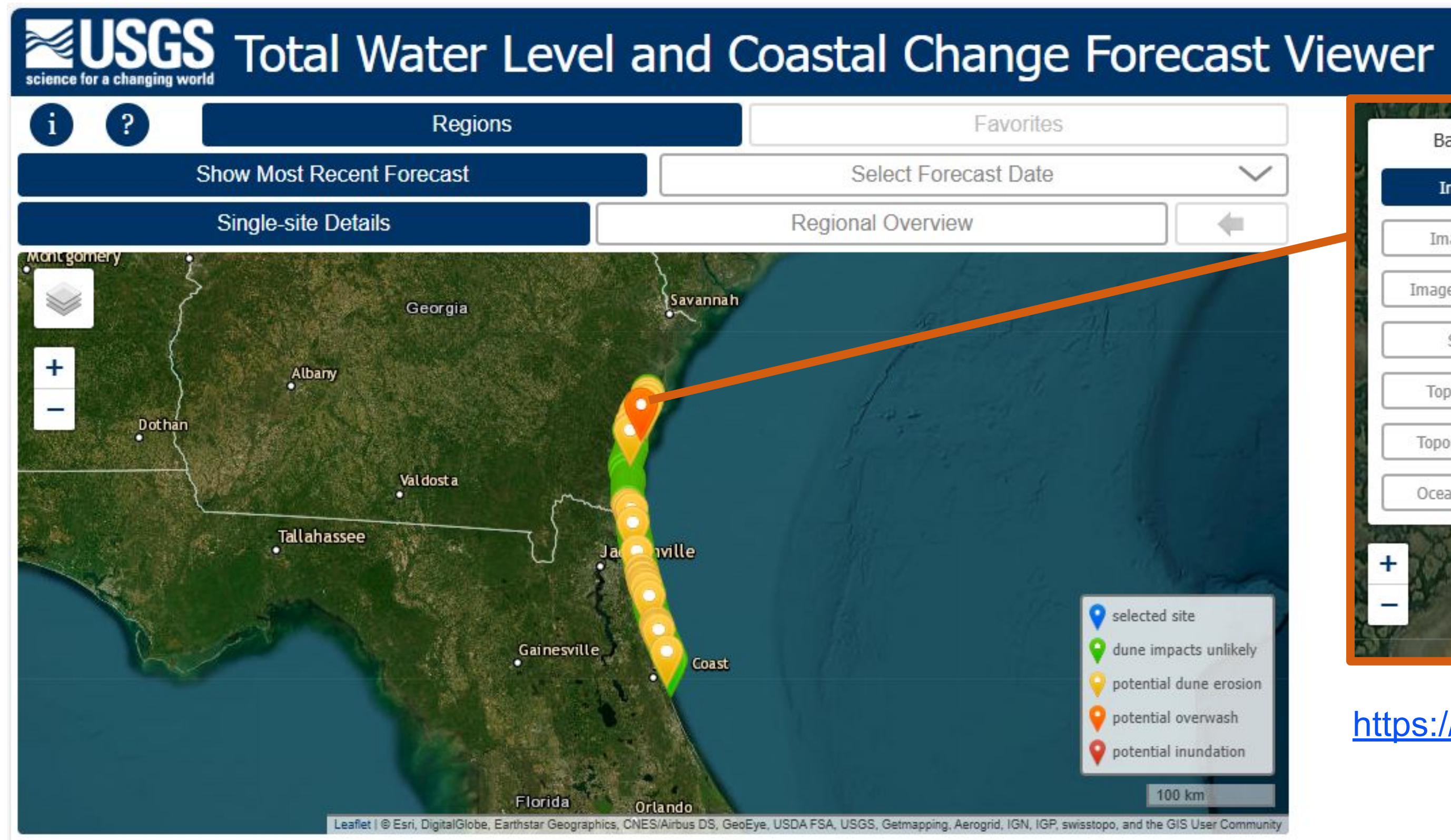
<https://coast.noaa.gov/digitalcoast/tools/slr.html>





# Coastal Vulnerability Assessment Tool

- Event driven - combination of tides, surge & wave runup
- Output is estimate of elevation where ocean meets coast & provides guidance on potential erosion & flooding



<https://coastal.er.usgs.gov/development/gittens/hurricanes/research/twviewer/>



# Flood Frequency Terms

200 year ARI or 0.5% AEP  
are different ways to  
describe the SAME event

## Average Recurrence Interval (ARI)

- Average time between floods of a certain size
- Large, infrequent floods have higher ARIs than smaller floods |
- A 200 year ARI flood will occur, on average, every 200 years
- A 200 year ARI flood has a 1-in-200 chance of occurring in a given year

## Annual Exceedance Probability (AEP)

- Probability of a certain size flood in a single year
- AEP is the inverse of ARI
- **200 year ARI = 1-in-200 chance of occurring in a given year =  $1/200 = 0.005 \times 100 = 0.50\%$  AEP**





# Atlas Project

- Locations specific precipitation frequency estimates (1 in XXXX year flood)
- Can help with flood water mitigation projects

# ATLAS 14



[https://hdsc.nws.noaa.gov/pfds/pfds\\_map\\_cont.html](https://hdsc.nws.noaa.gov/pfds/pfds_map_cont.html)

# Data Request

## Choose Location

## Output

# NOAA ATLAS 14 POINT PRECIPITATION FREQUENCY ESTIMATES: KS

## Data description

Data type: Precipitation depth Units: English Time series type: Partial duration

## Select location

### 1) Manually:

a) By location (decimal degrees, use "." for S and W): Latitude: Longitude: Submit

b) By station (list of KS stations): Select station

c) By address Search

### 2) Use map:

**a) Select location**  
Move crosshair or double click

**b) Click on station icon**  
☐ Show stations on map

---

**Location information:**  
**Name:** Bronson, Kansas, USA\*  
**Latitude:** 38.0000°  
**Longitude:** -95.0000°  
**Elevation:** 1039 ft \*\*

\* Source: ESRI Maps  
\*\* Source: USGS

## POINT PRECIPITATION FREQUENCY (PF) ESTIMATES

WITH 90% CONFIDENCE INTERVALS AND SUPPLEMENTARY INFORMATION  
NOAA Atlas 14, Volume 8, Version 2

PF tabular

PF graphical

Supplementary information

[Print page](#)

### PDS-based precipitation frequency estimates with 90% confidence intervals (in inches)<sup>1</sup>

Duration	Average recurrence interval (years)									
	1	2	5	10	25	50	100	200	500	1000
5-min	0.415 (0.326-0.522)	0.481 (0.378-0.606)	0.589 (0.462-0.743)	0.679 (0.529-0.858)	0.801 (0.605-1.03)	0.895 (0.663-1.16)	0.989 (0.710-1.31)	1.08 (0.751-1.46)	1.21 (0.809-1.66)	1.30 (0.853-1.81)
10-min	0.608 (0.478-0.765)	0.705 (0.554-0.887)	0.863 (0.676-1.09)	0.994 (0.774-1.26)	1.17 (0.886-1.51)	1.31 (0.970-1.71)	1.45 (1.04-1.92)	1.59 (1.10-2.14)	1.77 (1.18-2.43)	1.91 (1.25-2.65)
15-min	0.741 (0.583-0.933)	0.859 (0.675-1.08)	1.05 (0.824-1.33)	1.21 (0.944-1.53)	1.43 (1.08-1.84)	1.60 (1.18-2.08)	1.77 (1.27-2.34)	1.94 (1.34-2.61)	2.16 (1.44-2.96)	2.33 (1.52-3.23)



Data Description Parameters:  
Data Type: **Precipitation Depth** (Accumulation) Time Series Type: **Partial Duration**

PF tabular

PF graphical

Supplementary information

PDS-based precipitation frequency estimates with 90% confidence inte							
Duration	Average recurrence interval (years)						
	1	2	5	10	25	50	100
5-min	0.545 (0.447-0.666)	0.627 (0.514-0.767)	0.760 (0.620-0.932)	0.868 (0.704-1.07)	1.01 (0.790-1.29)	1.12 (0.856-1.45)	1.23 (0.905-1.64)
10-min	0.798 (0.654-0.975)	0.919 (0.752-1.12)	1.11 (0.908-1.36)	1.27 (1.03-1.57)	1.48 (1.16-1.88)	1.65 (1.25-2.13)	1.80 (1.32-2.40)
15-min	0.973 (0.798-1.19)	1.12 (0.917-1.37)	1.36 (1.11-1.66)	1.55 (1.26-1.91)	1.81 (1.41-2.30)	2.01 (1.53-2.59)	2.20 (1.62-2.92)
30-min	1.44 (1.18-1.76)	1.67 (1.35-2.09)	2.04 (1.61-2.47)	2.33 (1.81-2.85)	2.74 (2.14-3.34)	3.04 (2.35-3.73)	3.34 (2.45-4.42)
60-min	1.92 (1.57-2.34)	2.33 (1.81-2.85)	2.85 (2.25-3.45)	3.34 (2.65-4.03)	3.85 (3.06-4.64)	4.36 (3.47-5.25)	4.55 (3.35-6.09)
2-hr	2.40 (1.98-2.90)	2.90 (2.29-3.51)	3.51 (2.80-4.22)	4.03 (3.24-4.82)	4.64 (3.75-5.53)	5.25 (4.26-6.24)	5.77 (4.29-7.69)
3-hr	2.68 (2.23-3.23)	3.23 (2.53-3.93)	3.93 (3.14-4.72)	4.42 (3.53-5.31)	5.03 (4.04-6.02)	5.64 (4.55-6.73)	6.66 (4.99-8.88)
6-hr	3.14 (2.63-3.75)	3.55 (2.97-4.25)	4.34 (3.62-5.21)	5.10 (4.22-6.15)	6.30 (5.11-8.06)	7.34 (5.78-9.51)	8.50 (6.43-11.3)
12-hr	3.57 (3.02-4.24)	4.15 (3.50-4.93)	5.24 (4.40-6.23)	6.26 (5.23-7.49)	7.85 (6.41-9.96)	9.22 (7.30-11.8)	10.7 (8.17-14.1)

## Interpretation

Rainfall accumulation of 1.55” in 15 minutes has a recurrence interval of 10 years at this location.

1.55” = Median  
(1.26-1.91) = 90 percent confidence range  
1.26” = 5th percentile  
1.19 = 95th percentile



Data Description Parameters:  
Data Type: **Precipitation Depth** (Accumulation) Time Series Type: **Annual Maximum**

PF tabular

PF graphical

Supplementary information

AMS-based precipitation frequency estimates with 90% confidence interval						
Duration	Annual exceedance probability (1/years)					
	1/2	1/5	1/10	1/25	1/50	1/100
5-min	0.586 (0.480-0.716)	0.743 (0.607-0.911)	0.860 (0.697-1.06)	1.01 (0.787-1.28)	1.12 (0.855-1.45)	1.23 (0.904-1.64)
10-min	0.858 (0.703-1.05)	1.09 (0.888-1.33)	1.26 (1.02-1.55)	1.48 (1.15-1.88)	1.64 (1.25-2.12)	1.80 (1.32-2.39)
15-min	1.05 (0.857-1.28)	1.33 (1.08-1.63)	1.54 (1.25-1.89)	1.80 (1.40-2.29)	2.00 (1.53-2.59)	2.20 (1.62-2.92)
30-min	1.55 (1.27-1.90)	1.99 (1.62-2.44)	2.31 (1.88-2.85)	2.73 (2.12-3.46)	3.03 (2.31-3.91)	3.34 (2.45-4.42)
60-min	2.05 (1.68-2.51)	2.59 (2.12-3.18)	3.02 (2.45-3.72)	3.61 (2.83-4.62)	4.07 (3.11-5.30)	4.55 (3.35-6.08)
2-hr	2.55 (2.11-3.09)	3.02 (2.61-3.44)	3.34 (2.91-3.77)	3.61 (3.11-4.11)	4.07 (3.54-4.60)	4.55 (4.01-5.09)
3-hr	2.84 (2.36-3.43)	3.34 (2.91-3.77)	3.61 (3.11-4.11)	3.61 (3.11-4.11)	4.07 (3.54-4.60)	4.55 (4.01-5.09)
6-hr	3.34 (2.79-3.99)	4.07 (3.54-4.60)	4.55 (4.01-5.09)	4.55 (4.01-5.09)	4.55 (4.01-5.09)	4.55 (4.01-5.09)
12-hr	3.85 (3.25-4.57)	4.55 (4.01-5.09)	5.09 (4.55-5.63)	5.09 (4.55-5.63)	5.09 (4.55-5.63)	5.09 (4.55-5.63)

Interpretation

60 minute rainfall accumulation of 3.61” is a 1 in 25 year event at this location, or has a 4% chance of occurrence in any given year.

3.61” = Median  
(2.83-4.62) = 90 percent confidence range  
2.83” = 5th percentile  
4.62 = 95th percentile





Data Description Parameters:  
Data Type: **Precipitation Intensity** (Hourly Rate) Time Series Type: **Partial Duration**

PF tabularPF graphicalSupplementary information						
PDS-based precipitation frequency estimates with 90% confidence						
Duration	Average recurrence interval (years)					
	1	2	5	10	25	50
5-min	6.54 (5.36-7.99)	7.52 (6.17-9.20)	9.12 (7.44-11.2)	10.4 (8.45-12.8)	12.2 (9.48-15.4)	13.5 (10.3-17.4)
10-min	4.79 (3.92-5.85)	5.51 (4.51-6.74)	6.68 (5.45-8.18)	7.63 (6.19-9.40)	8.91 (6.94-11.3)	9.88 (7.52-12.8)
15-min	3.89 (3.19-4.76)	4.48 (3.67-5.48)	5.43 (4.43-6.66)	6.20 (5.03-7.64)	7.24 (5.65-9.20)	8.03 (6.12-10.4)
30-min	2.88 (2.36-3.51)	3.33 (2.73-4.08)	4.07 (3.27-5.07)	4.67 (3.77-5.87)	5.47 (4.47-6.67)	6.08 (4.98-7.28)
60-min	1.92 (1.57-2.34)	2.19 (1.79-2.68)	2.67 (2.17-3.17)	3.07 (2.47-3.67)	3.67 (2.97-4.37)	4.08 (3.28-4.88)
2-hr	1.20 (0.990-1.45)	1.36 (1.12-1.65)	1.67 (1.37-1.97)	1.97 (1.62-2.32)	2.32 (1.92-2.72)	2.67 (2.22-3.12)
3-hr	0.892 (0.741-1.08)	1.00 (0.832-1.21)	1.15 (0.997-1.46)	1.36 (1.15-1.70)	1.67 (1.36-2.17)	1.97 (1.51-2.52)

**Interpretation**

A rainfall rate of 6.20” in 15 minutes has a recurrence interval of 10 years at this location.

**6.20” = Median**  
(5.03-7.64) = 90 percent confidence range  
5.03” = 5th percentile  
7.64 = 95th percentile



Data Description Parameters:  
Data Type: **Precipitation Intensity** (Hourly Rate) Time Series Type: **Annual Maximum**

AMS-based precipitation frequency estimates with 90% confidence interval						
Duration	Annual exceedance probability (1/years)					
	1/2	1/5	1/10	1/25	1/50	1/100
5-min	7.03 (5.76-8.59)	8.92 (7.28-10.9)	10.3 (8.36-12.7)	12.1 (9.44-15.4)	13.5 (10.3-17.4)	14.8 (10.8-19.6)
10-min	5.15 (4.22-6.29)	6.53 (5.33-8.00)	7.55 (6.13-9.30)	8.88 (6.91-11.3)	9.86 (7.51-12.7)	10.8 (7.94-14.4)
15-min	4.18 (3.43-5.12)	5.31 (4.33-6.50)	6.14 (4.98-7.56)	7.22 (5.62-9.15)	8.02 (6.10-10.3)	8.80 (6.46-11.7)
30-min	3.10 (2.54-3.79)	3.98 (3.25-4.87)	4.62 (3.75-5.69)	5.45 (4.24-6.91)	6.07 (4.62-7.83)	6.67 (4.89-8.84)
60-min	2.05 (1.68-2.59)	2.59 (2.05-3.25)	3.02 (2.41-3.69)	3.61 (2.91-4.35)	4.07 (3.35-4.81)	4.55 (3.35-6.08)
2-hr	1.15 (1.05-1.25)	1.45 (1.25-1.65)	1.75 (1.55-1.95)	2.15 (1.85-2.45)	2.55 (2.15-2.95)	2.88 (2.15-3.84)
3-hr	0.95 (0.78-1.12)	1.25 (1.05-1.45)	1.55 (1.35-1.75)	1.95 (1.65-2.25)	2.22 (1.66-2.96)	2.55 (1.85-3.45)
6-hr	0.55 (0.46-0.64)	0.75 (0.65-0.84)	0.95 (0.85-1.05)	1.15 (1.05-1.25)	1.35 (1.25-1.45)	1.42 (1.07-1.88)

**Interpretation**

A 30 minute rainfall rate of 4.62” is a 1 in 10 year event at this location, or has a 10% chance of occurrence in any given year.

**4.62” = Median**  
(3.75-5.69) = 90 percent confidence range  
3.75” = 5th percentile  
5.69 = 95th percentile





# Atlas 14 Now → Atlas 15 in 2026

<https://water.noaa.gov/about/atlas15>

- Presented as Exceedance Probabilities
- Spatially continuous coverage over the U.S.
- Will account for future temporal trends (through 2100)

Annual Exceedance Probability (%)							
<input type="checkbox"/>	Duration	50% <input type="checkbox"/>	20% <input type="checkbox"/>	10% <input type="checkbox"/>	4% <input type="checkbox"/>	2% <input type="checkbox"/>	1% <input type="checkbox"/>
<input type="checkbox"/>	60 minutes	<b>0.499</b> (0.446 - 0.549)	<b>0.729</b> (0.64 - 0.818)	<b>0.919</b> (0.793 - 1.05)	<b>1.21</b> (1.02 - 1.41)	<b>1.48</b> (1.22 - 1.75)	<b>1.79</b> (1.45 - 2.16)
<input type="checkbox"/>	120 minutes	<b>0.619</b> (0.563 - 0.675)	<b>0.841</b> (0.747 - 0.937)	<b>1.01</b> (0.888 - 1.15)	<b>1.3</b> (1.11 - 1.51)	<b>1.56</b> (1.31 - 1.84)	<b>1.86</b> (1.53 - 2.24)
<input type="checkbox"/>	3 hours	<b>0.71</b> (0.649 - 0.771)	<b>0.951</b> (0.851 - 1.06)	<b>1.14</b> (1 - 1.28)	<b>1.43</b> (1.23 - 1.64)	<b>1.68</b> (1.42 - 1.96)	<b>1.97</b> (1.64 - 2.35)
<input type="checkbox"/>	6 hours	<b>0.89</b> (0.817 - 0.966)	<b>1.18</b> (1.07 - 1.31)	<b>1.4</b> (1.25 - 1.57)	<b>1.71</b> (1.5 - 1.95)	<b>1.96</b> (1.69 - 2.26)	<b>2.23</b> (1.9 - 2.62)





# Atlas Job Sheets - NWS JAX DSS Page

## NWS Jacksonville Decision Support Services

### Immediate Support

#### NWS Jacksonville Operations

904-741-4370 extension 1

#### NWS Jacksonville Briefing

#### NWSChat2.0 by Slack

Channel: #wfo-jacksonville-fl

About NWSChat

 NWS Jacksonville

 @NWSJacksonville

### Forecast Options (Choose Location)

- [Point Forecast Dashboard](#)
- [Marine Dashboard](#)
- [Fire Weather Dashboard](#)
- [SPOT Forecast Request](#)

### Products & Services

- [NWS JAX Met Watch](#) ([Met Watch Job Sheet](#))
- [Graphical Hazardous Weather Outlook](#)
- [Regional Probabilistic Forecast Graphics](#) ([Job Sheet](#))  
Graphics of SE Georgia & NE Florida
- [Local Probabilistic Forecast Graphics](#) ([Job Sheet](#))  
Downscaled, county level forecast graphics
- [Atlas Precipitation Frequency Analysis](#) ([Job Sheet](#))

JAX DSS



NATIONAL WEATHER SERVICE



# Takeaways



## Fire Weather: Basics, Tools, & Outlook

Significant Wildfire Risk Apr/May  
Reduces in June - wet season



## Flood Risk Tools & Products

Excessive Rain Outlooks  
Flood & Flash Flood Products  
More Flash Flood Warnings



## Climate Trend Tools

Coastal Vulnerability Tool  
Sea Level Rise Viewer  
Atlas Precipitation Frequency



# Working Together to Save Lives

## NWS JAX CONTACTS

Climate & Hydrology

[Jason.Hess@noaa.gov](mailto:Jason.Hess@noaa.gov)

Fire Weather

[Alexander.Boothe@noaa.gov](mailto:Alexander.Boothe@noaa.gov)

## NWS JAX DECISION SUPPORT SERVICES

Planning forecasts, SPOTs,  
Event Support Options

JAX DSS

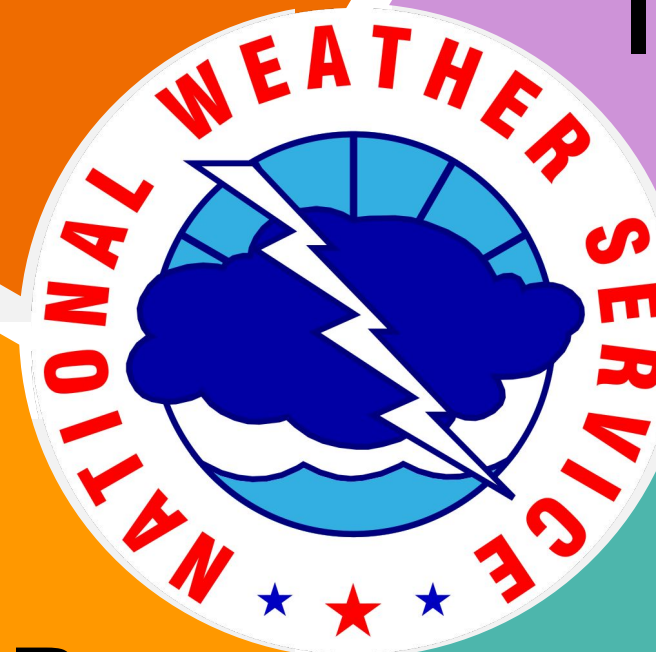


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NWSChat



**NWSChat2.0**