

Weekly Ecological Briefing



Monday, October 28, 2024

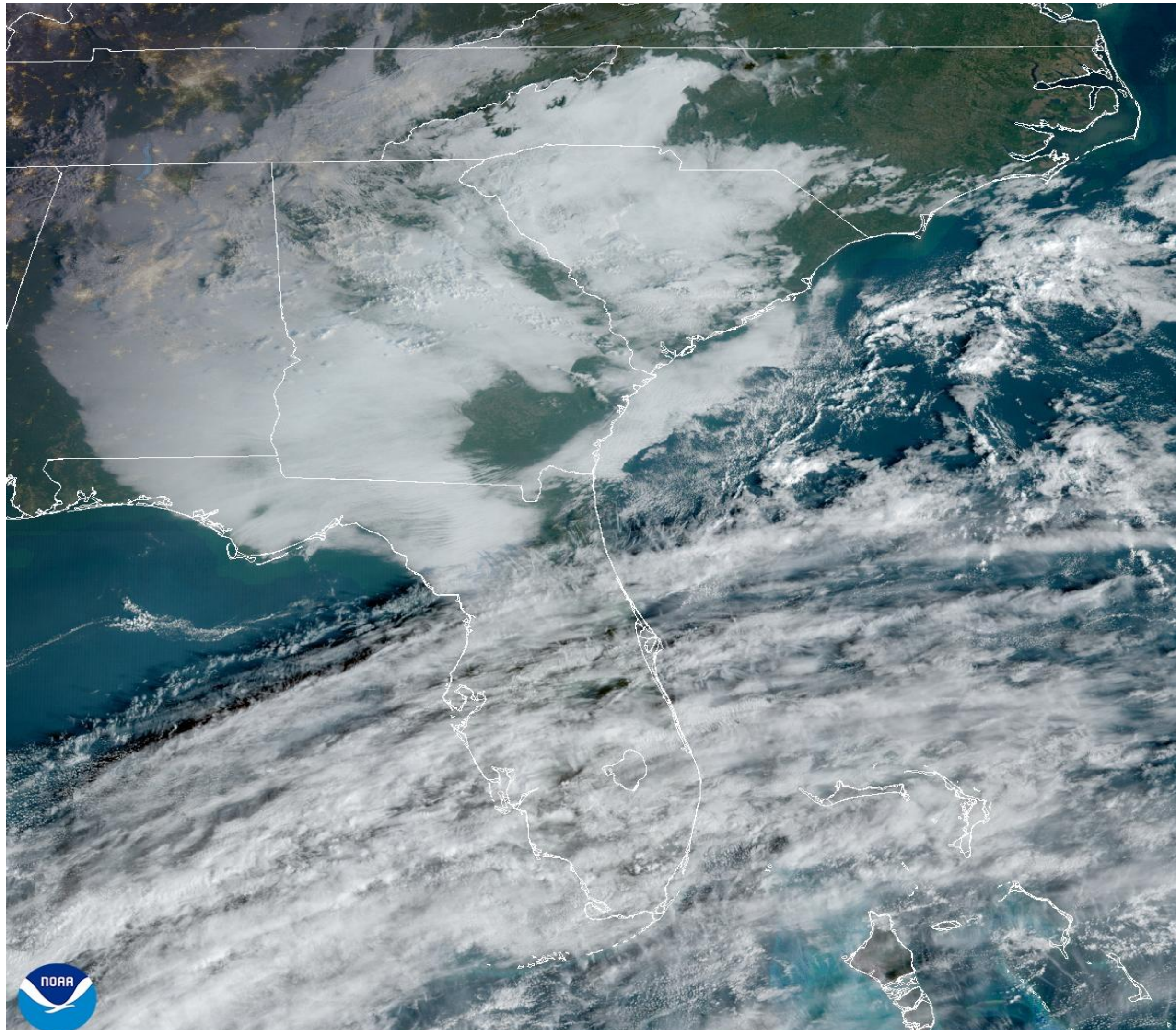
Briefing by Ross Giarratana

Satellite Imagery

Valid as of 9:30 AM



Tampa Bay/Ruskin
WEATHER FORECAST OFFICE



28 Oct 2024 13:11Z - NOAA/NESDIS/STAR - GOES-East - GEOCOLOR Composite - SE

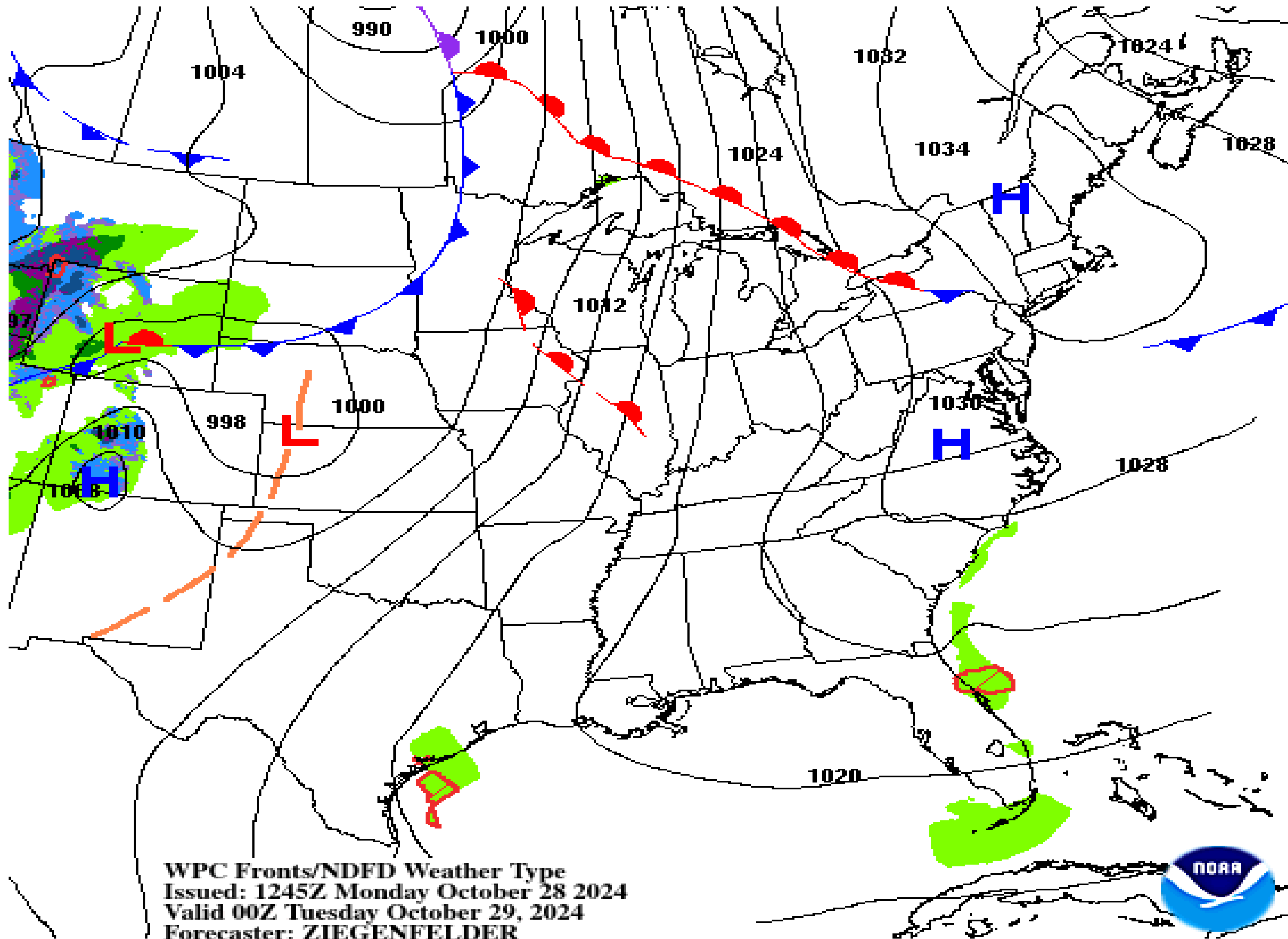
- Recent satellite shows mid to high level clouds across the area with areas of fog just north of the region.

Weather Overview

Today's Forecast Chart



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WEATHER FORECAST OFFICE



- Persistent high pressure that has brought recent dry conditions will continue to remain in control across much of the eastern US.
- Temperatures will generally be near normal to start the week in the mid 80s with east-northeast winds continuing each day.

Observed Precipitation

Precipitation from the Past 7 Days

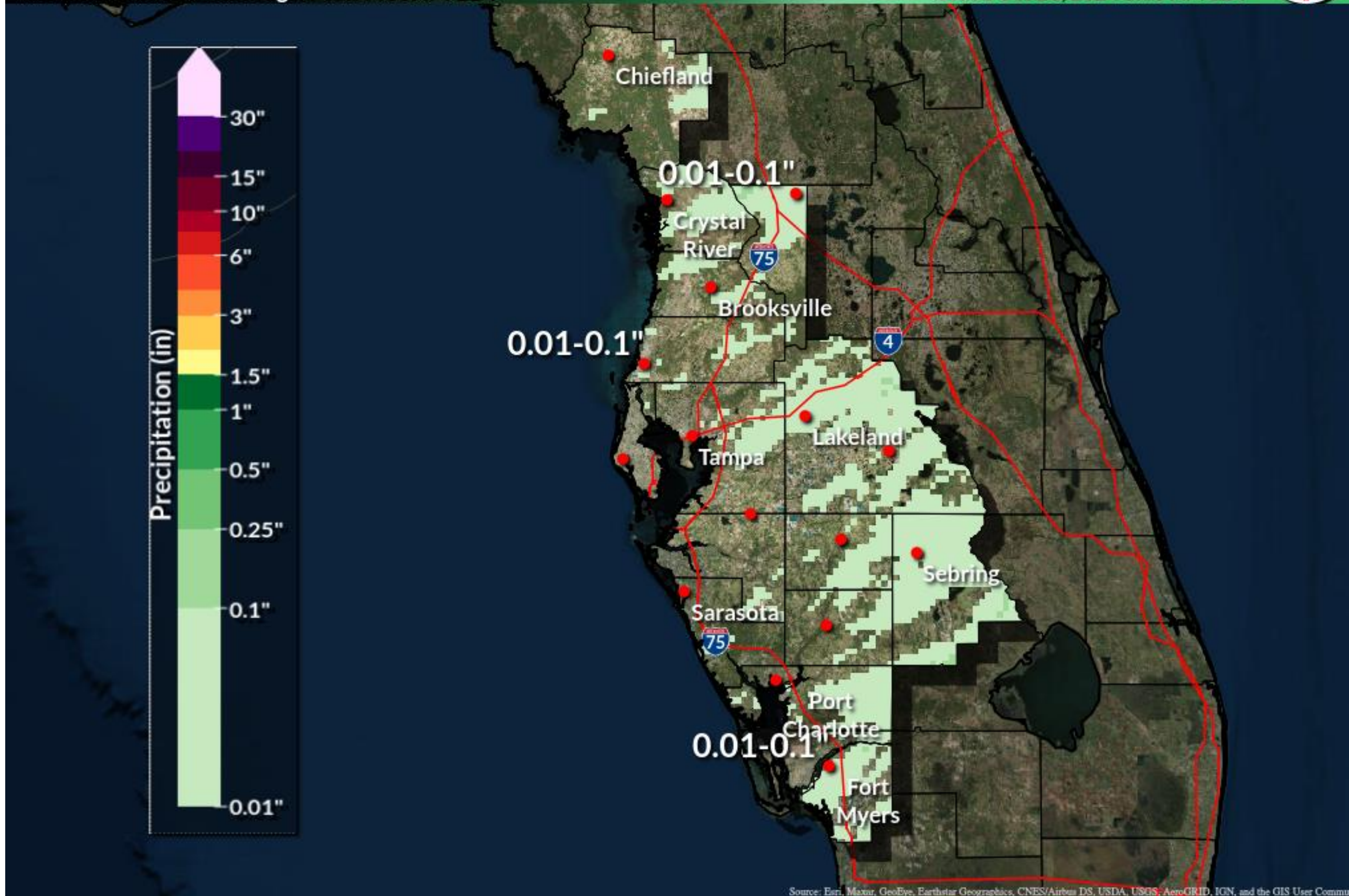


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Past 7 Days Precipitation

Valid Mon 8:00AM through Mon 7:00AM EDT

Weather Forecast Office
Tampa Bay/Ruskin, FL
Issued Oct 28, 2024 8:05 AM EDT



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

@NWS Tampa Bay

weather.gov/tampabay

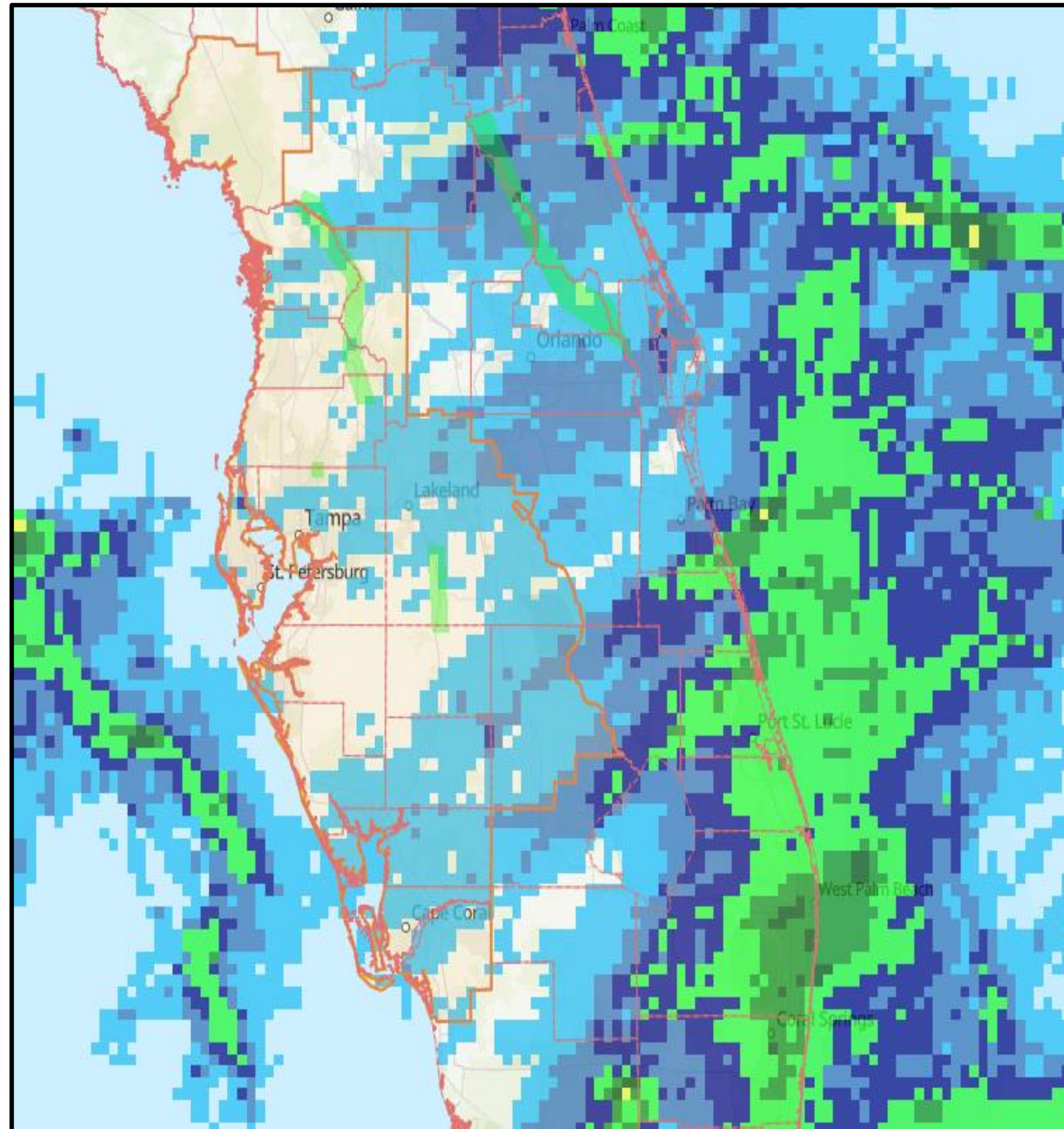
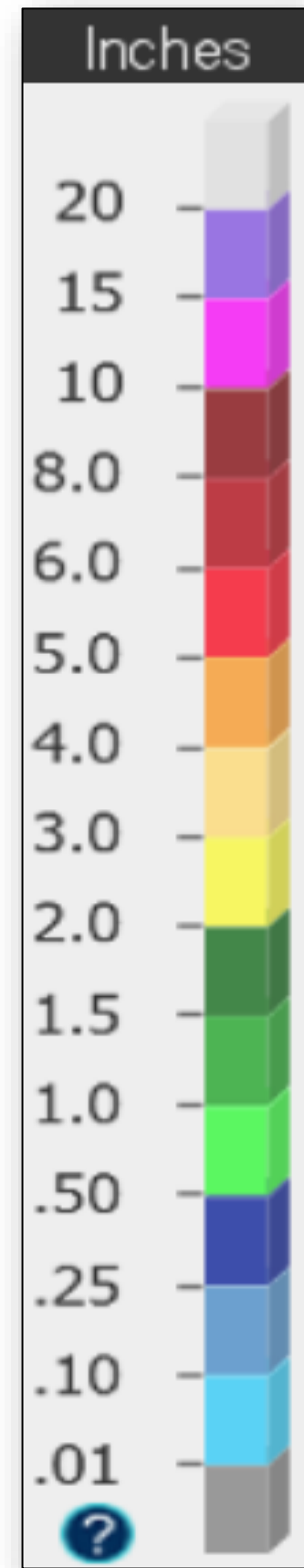
- Other than a few light showers at times, it has been mainly dry across the area the past 7 days with rainfall amounts generally around a trace to a few hundredths of an inch.

14 Day Rain Total & Percent of Normal

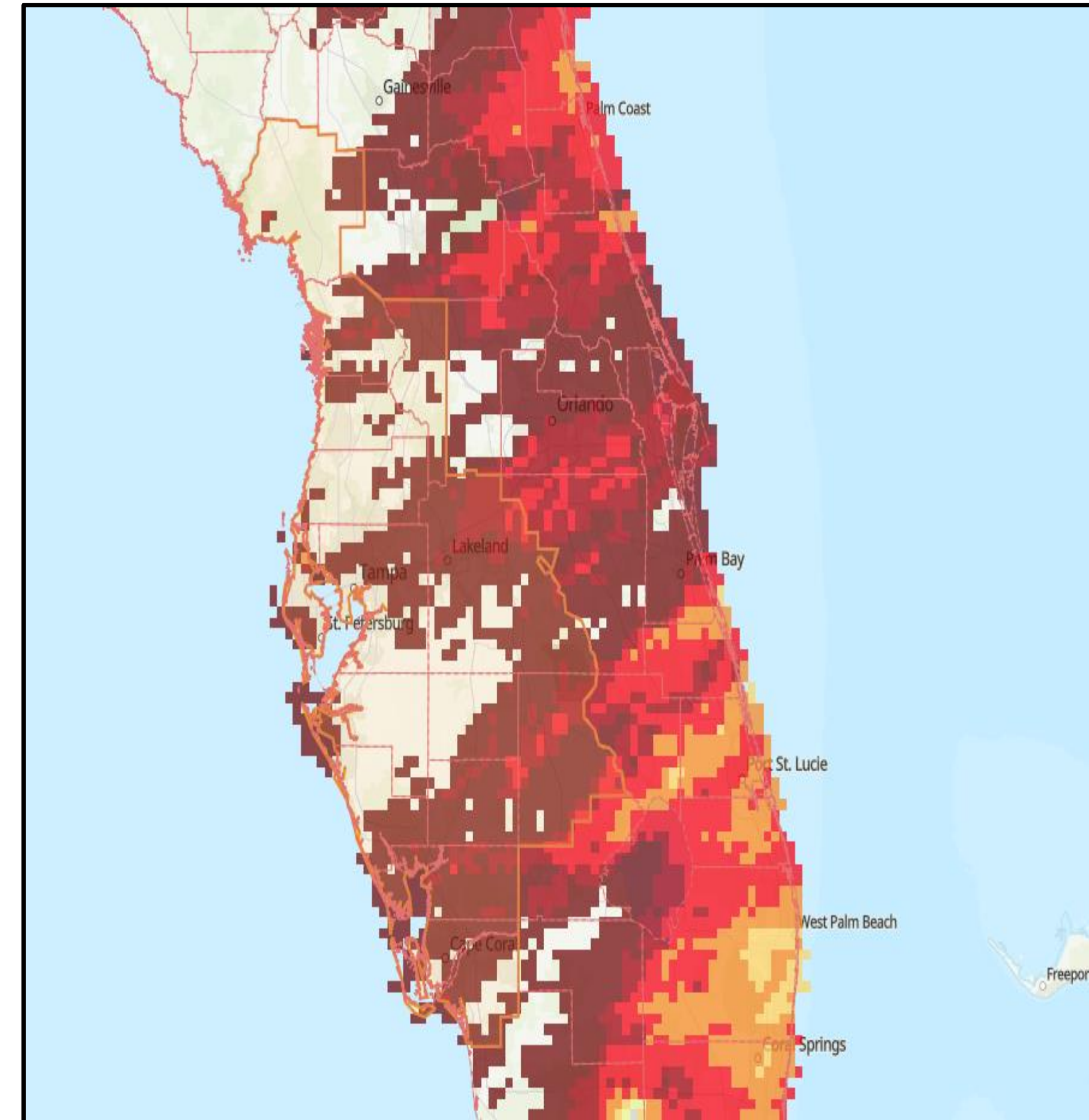
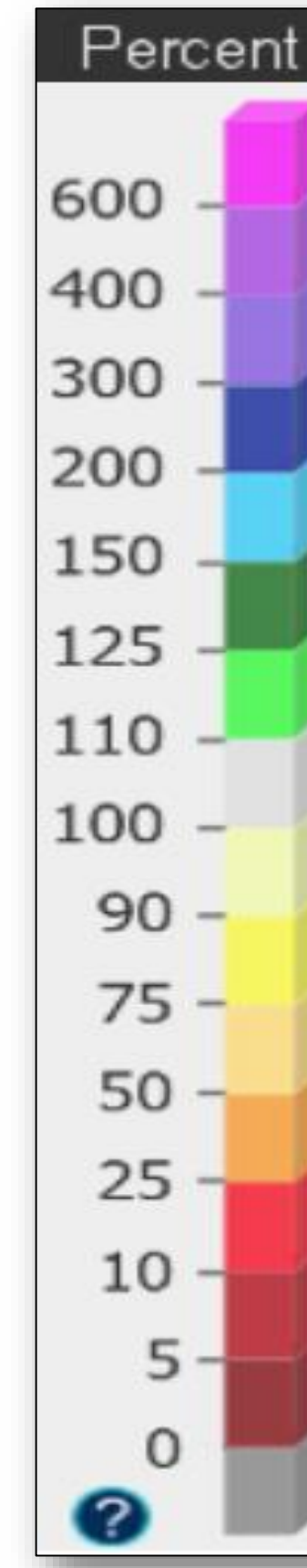


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14-Day Observed Precipitation



14-Day Percent of Normal



Drought Monitor

<https://droughtmonitor.unl.edu>



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U.S. Drought Monitor Florida

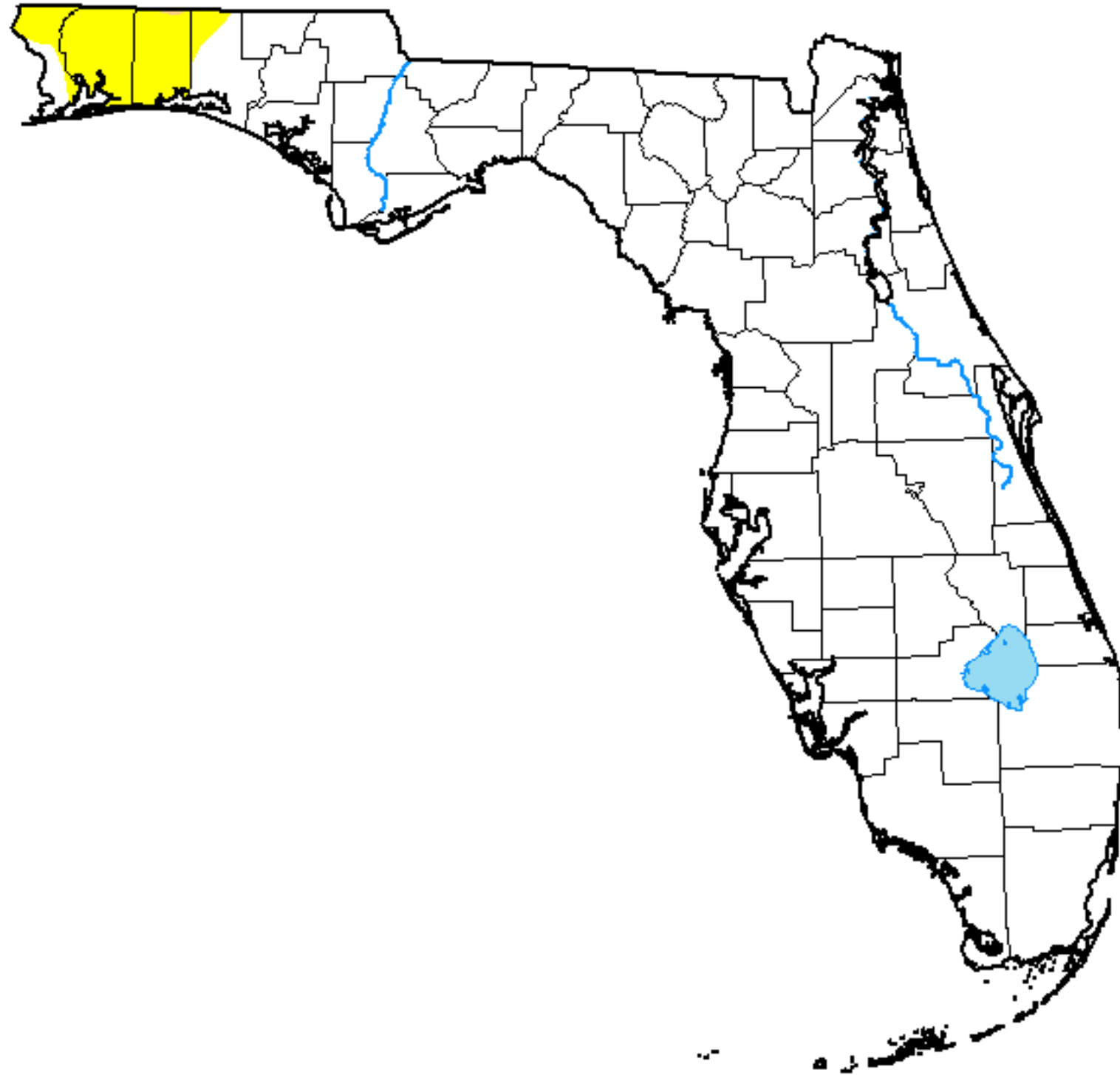
October 22, 2024

(Released Thursday, Oct. 24, 2024)

Valid 8 a.m. EDT

Drought Conditions (Percent Area)

| | None | D0-D4 | D1-D4 | D2-D4 | D3-D4 | D4 |
|---|-------|-------|-------|-------|-------|------|
| Current | 95.51 | 4.49 | 0.03 | 0.00 | 0.00 | 0.00 |
| Last Week 10-15-2024 | 98.54 | 1.46 | 0.03 | 0.00 | 0.00 | 0.00 |
| 3 Months Ago 07-23-2024 | 74.67 | 25.33 | 0.24 | 0.00 | 0.00 | 0.00 |
| Start of Calendar Year 01-02-2024 | 86.25 | 13.75 | 3.86 | 2.55 | 1.27 | 0.00 |
| Start of Water Year 10-01-2024 | 94.54 | 5.46 | 0.00 | 0.00 | 0.00 | 0.00 |
| One Year Ago 10-24-2023 | 72.64 | 27.36 | 15.35 | 11.03 | 0.89 | 0.00 |



Intensity:

| | |
|---------------------|------------------------|
| None | D2 Severe Drought |
| D0 Abnormally Dry | D3 Extreme Drought |
| D1 Moderate Drought | D4 Exceptional Drought |

The Drought Monitor focuses on broad-scale conditions. Local conditions may vary. For more information on the Drought Monitor, go to <https://droughtmonitor.unl.edu/About.aspx>

Author:

Rocky Bilotta
NCEI/NOAA



droughtmonitor.unl.edu

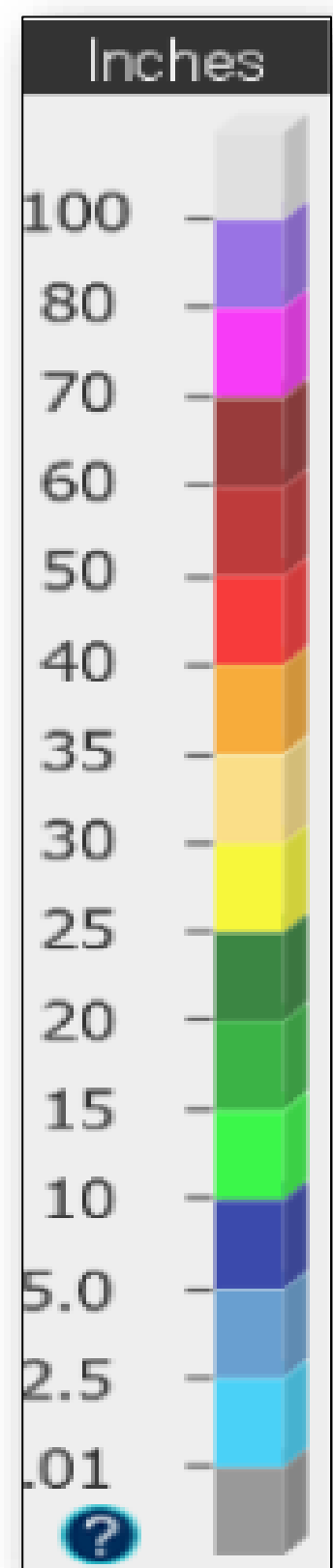
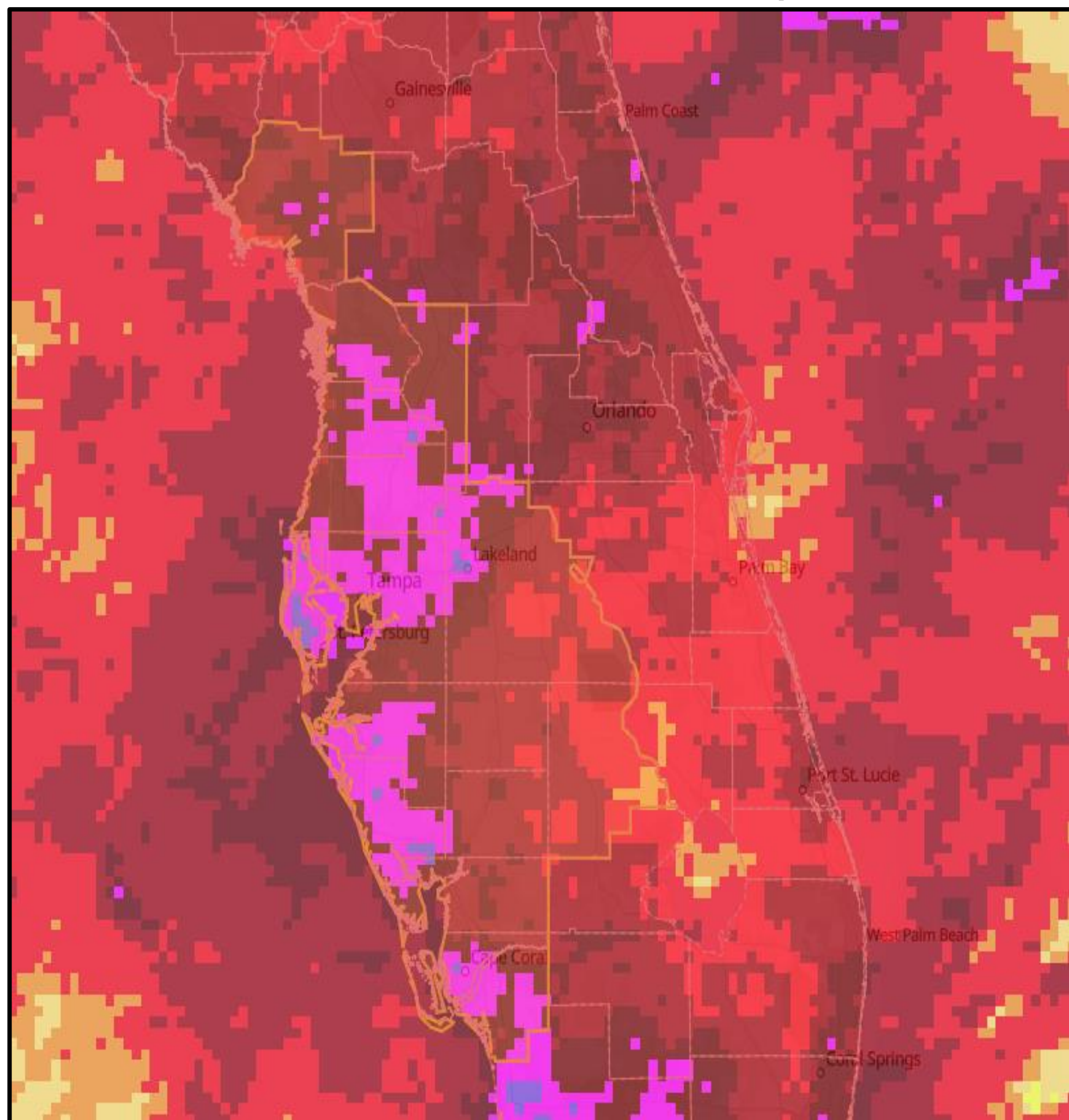
- There are currently not any drought conditions across west central and southwest Florida.

Year-to-Date Rain Total & Percent of Normal

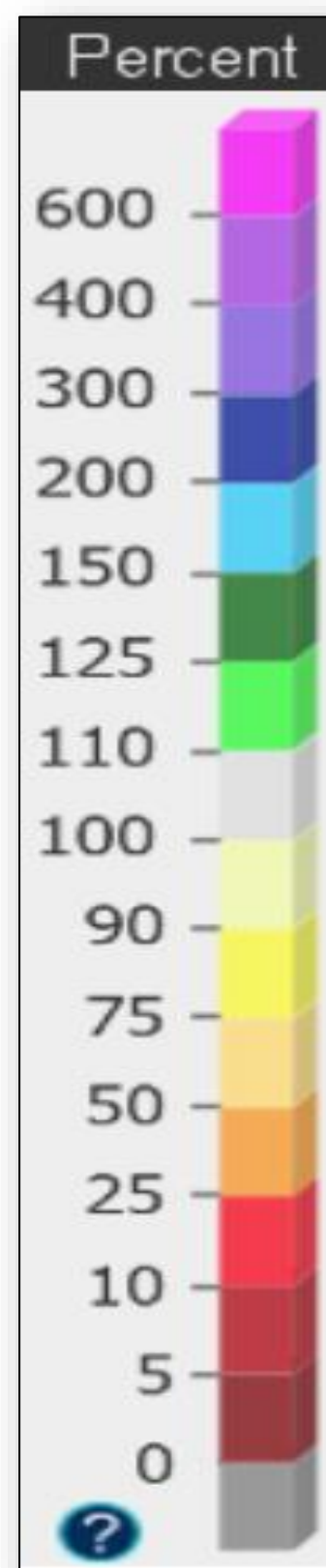
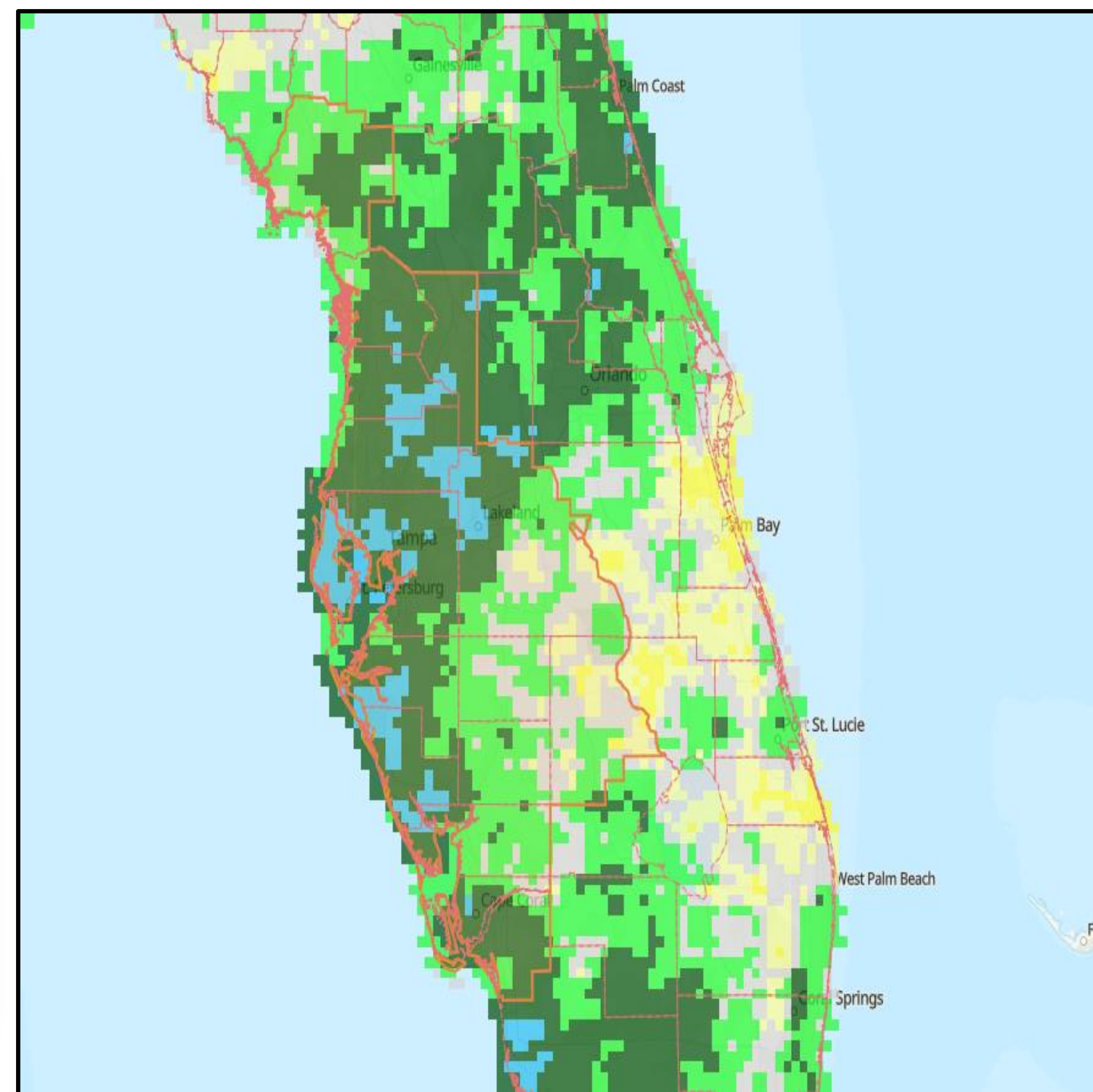


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Year to Date Observed Precipitation



Year to Date Percent of Normal



7-Day Rain Forecast

Forecast Valid Through Monday, November 4

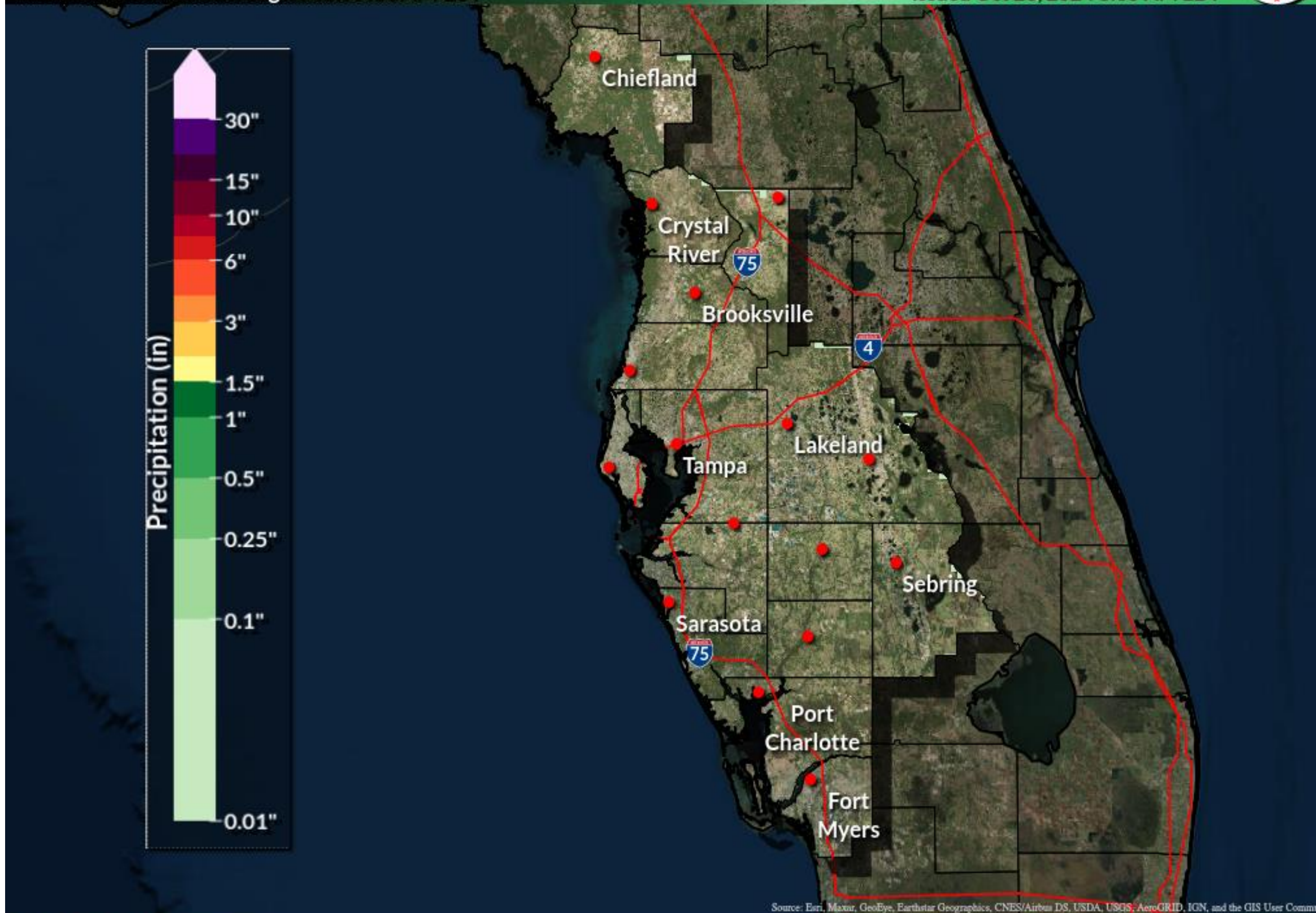


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7 Day Total Precipitation Forecast

Valid Mon 2:00PM through Mon 7:00AM EST

Weather Forecast Office
Tampa Bay/Ruskin, FL
Issued Oct 28, 2024 8:05 AM EDT



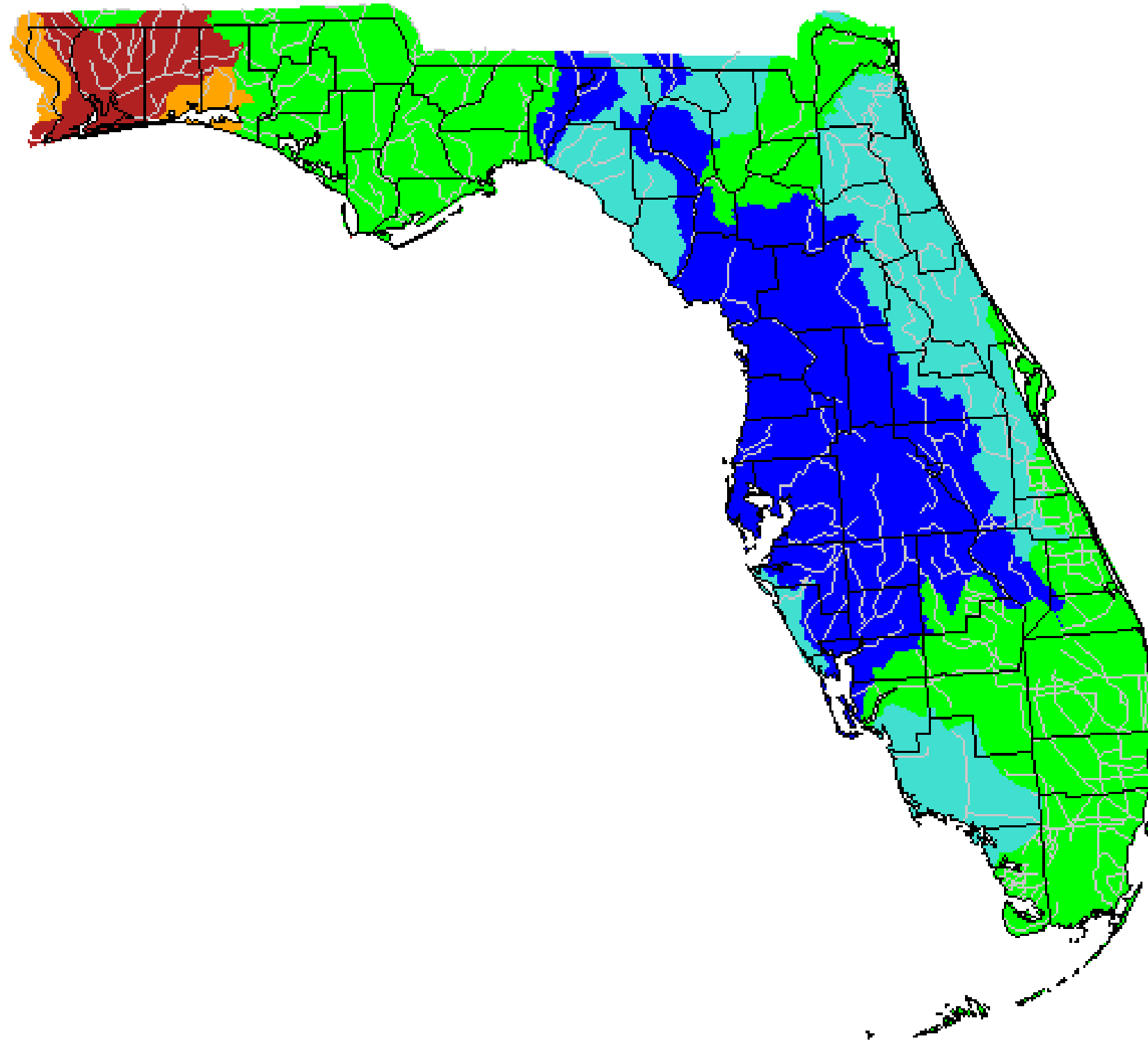
- High pressure will keep fair and generally dry weather conditions across the region through the next 7 days, though a few light showers or sprinkles will be possible at times mainly in interior areas.

USGS Stream Flow



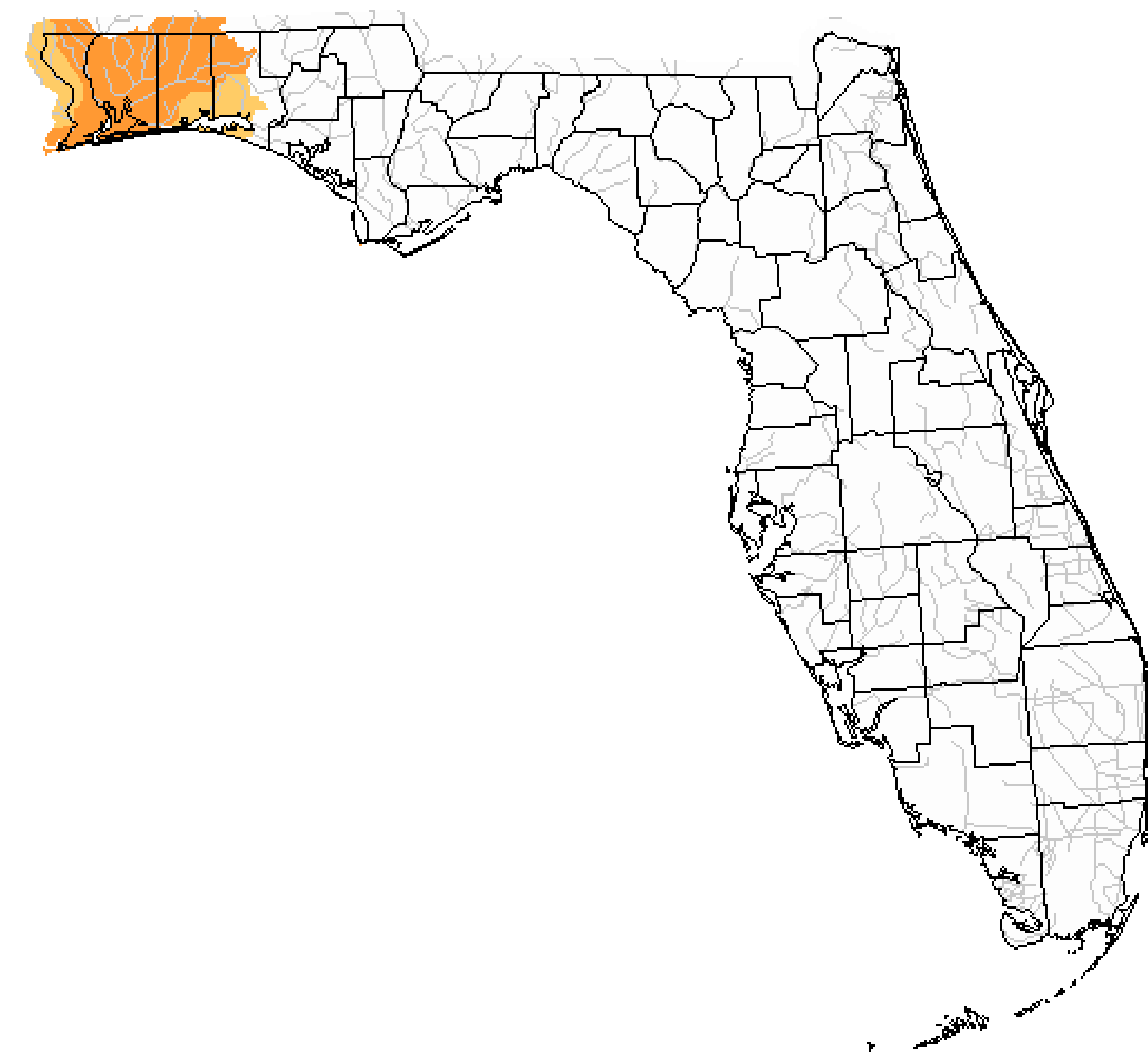
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7-Day Average Stream Flow Compared to Normal



| Explanation - Percentile classes | | | | | | | | |
|----------------------------------|-------------------|--------------|--------|--------------|-------------------|------|---------|--|
| | | | | | | | | |
| Low | <10 | 10-24 | 25-75 | 76-90 | >90 | High | No Data | |
| | Much below normal | Below normal | Normal | Above normal | Much above normal | | | |

7-Day Below Normal Flow Ranking



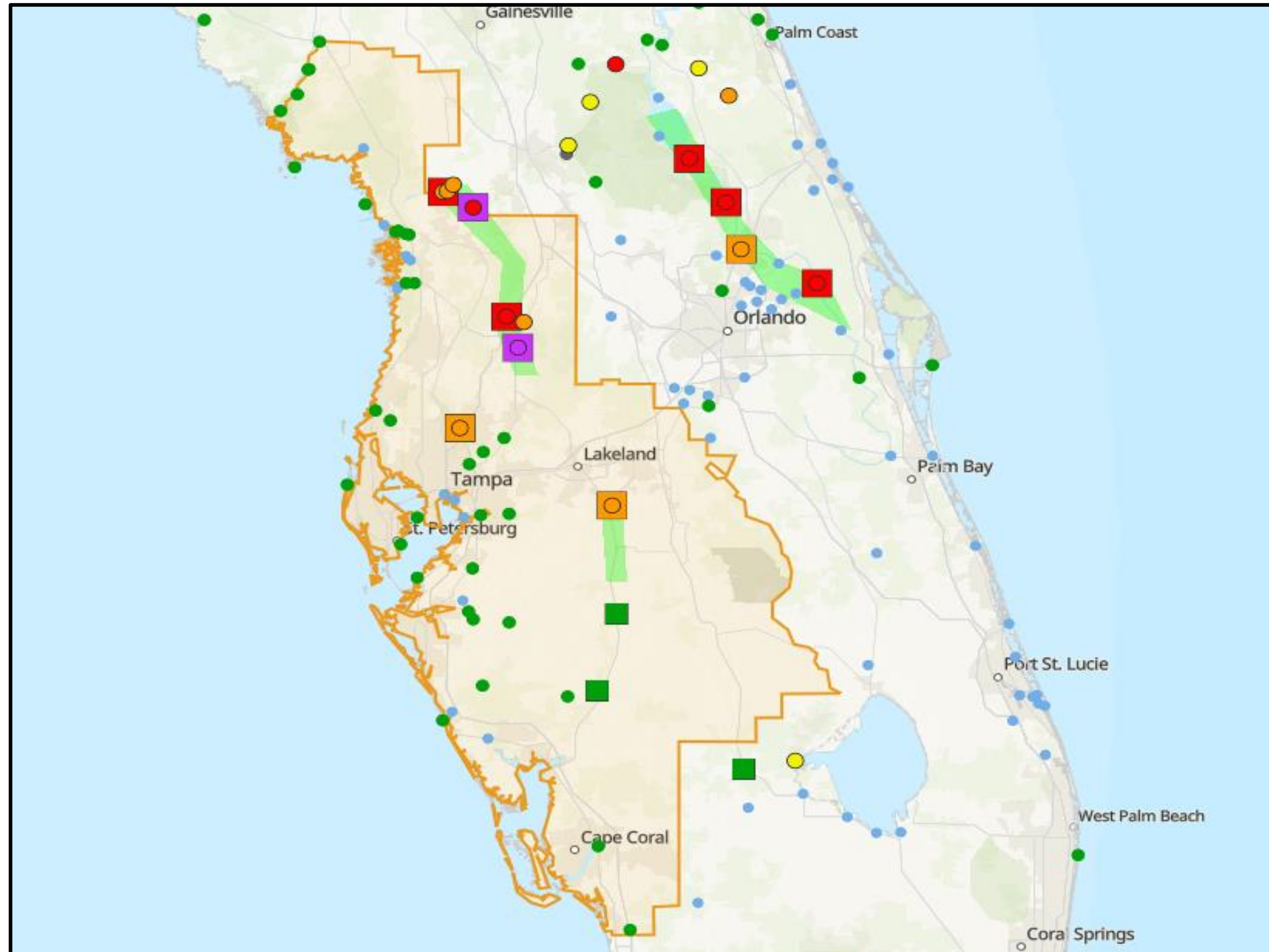
| Explanation - Percentile classes | | | |
|----------------------------------|---------------------------|-----------------------------|--------------|
| | | | |
| Low | <=5 | 6-9 | 10-24 |
| Extreme hydrologic drought | Severe hydrologic drought | Moderate hydrologic drought | Below normal |

River Observations



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River Flooding Remains Several Weeks After Milton



- **1 river gauges in Major Flood Stage**
 - Withlacochee River in Trilby
- **2 river gauge in Moderate Flood Stage**
 - Withlacochee River in Croom and Holder
- **3 river gauges in Minor Flood Stage**
 - Cypress Creek in Worthington Gardens, Peace River in Bartow, and Withlacochee in Dunnellon

River Forecasts

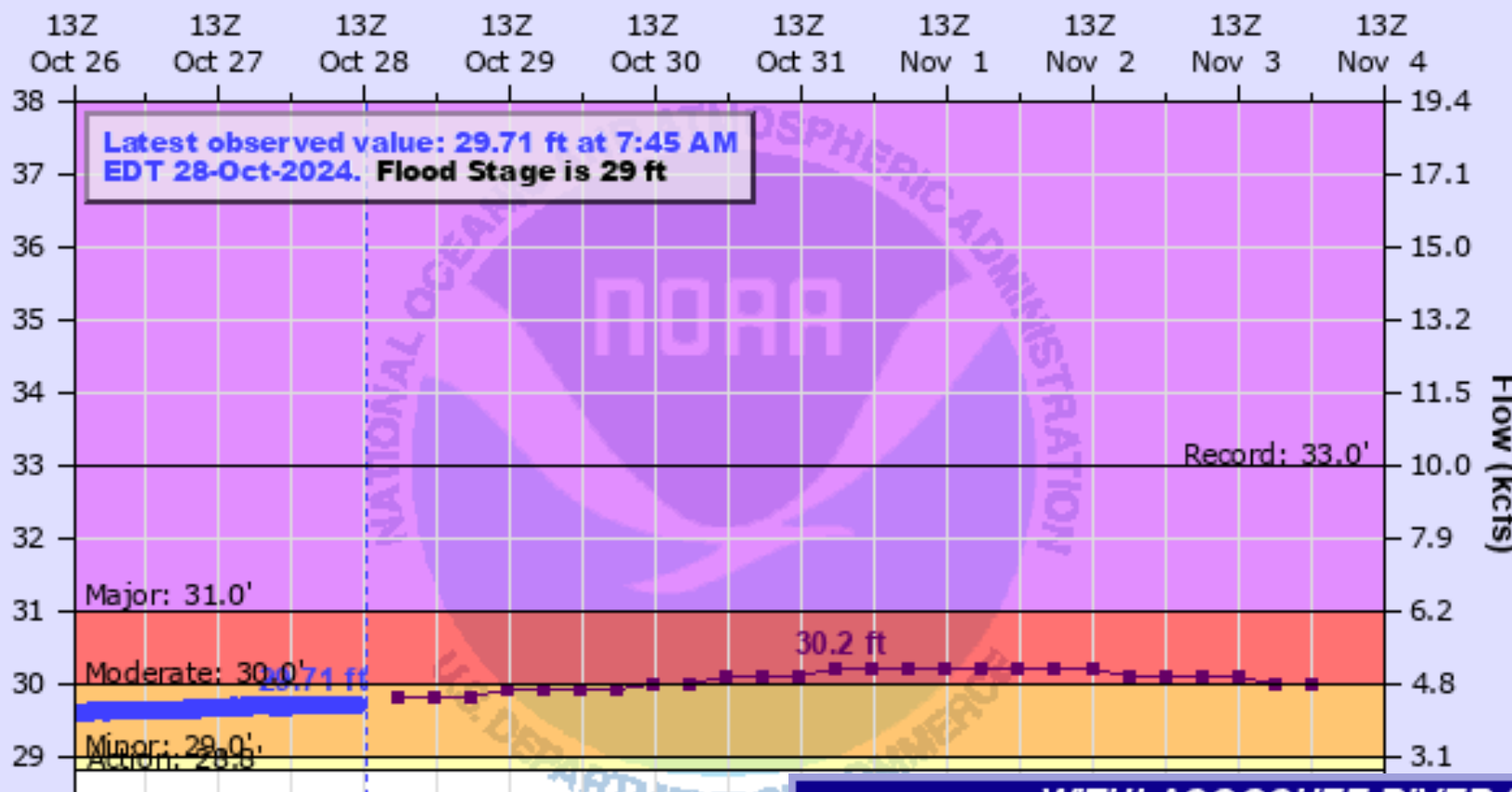
Withlacoochee River



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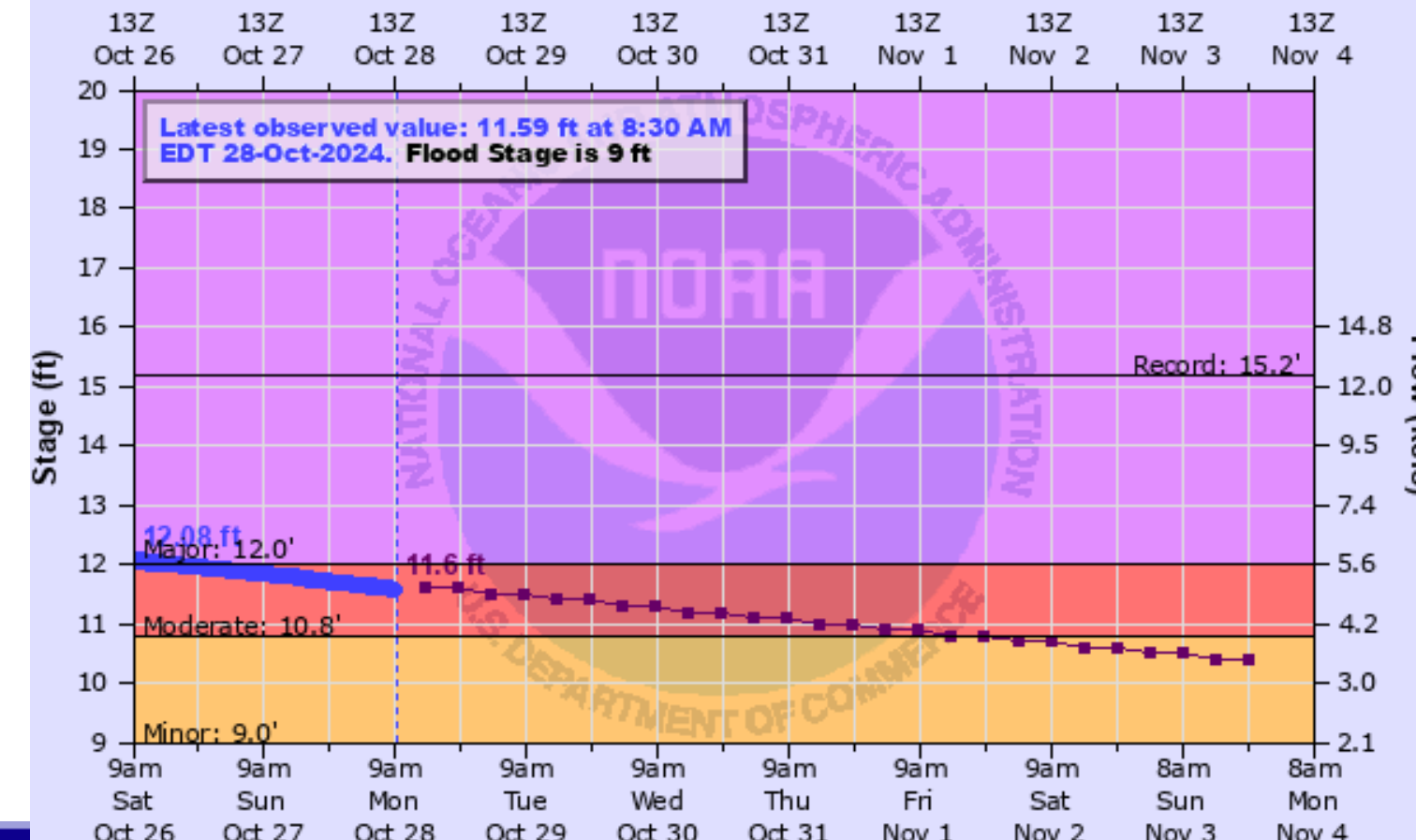
WITHLACOOCHEE RIVER (FL) AT US 41 DUNNELLON

Universal Time (UTC)



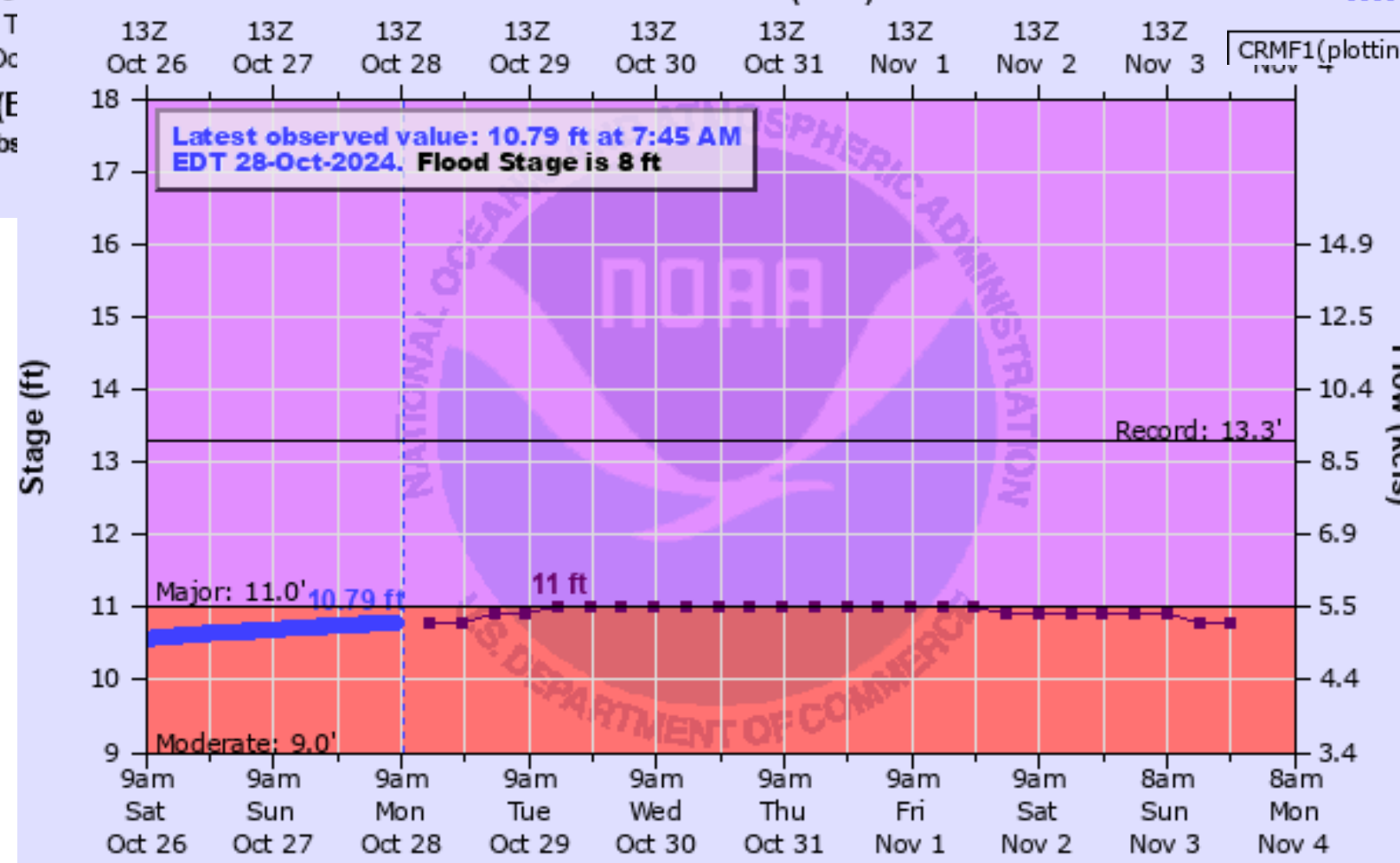
WITHLACOOCHEE RIVER (FL) AT CROOM

Universal Time (UTC)



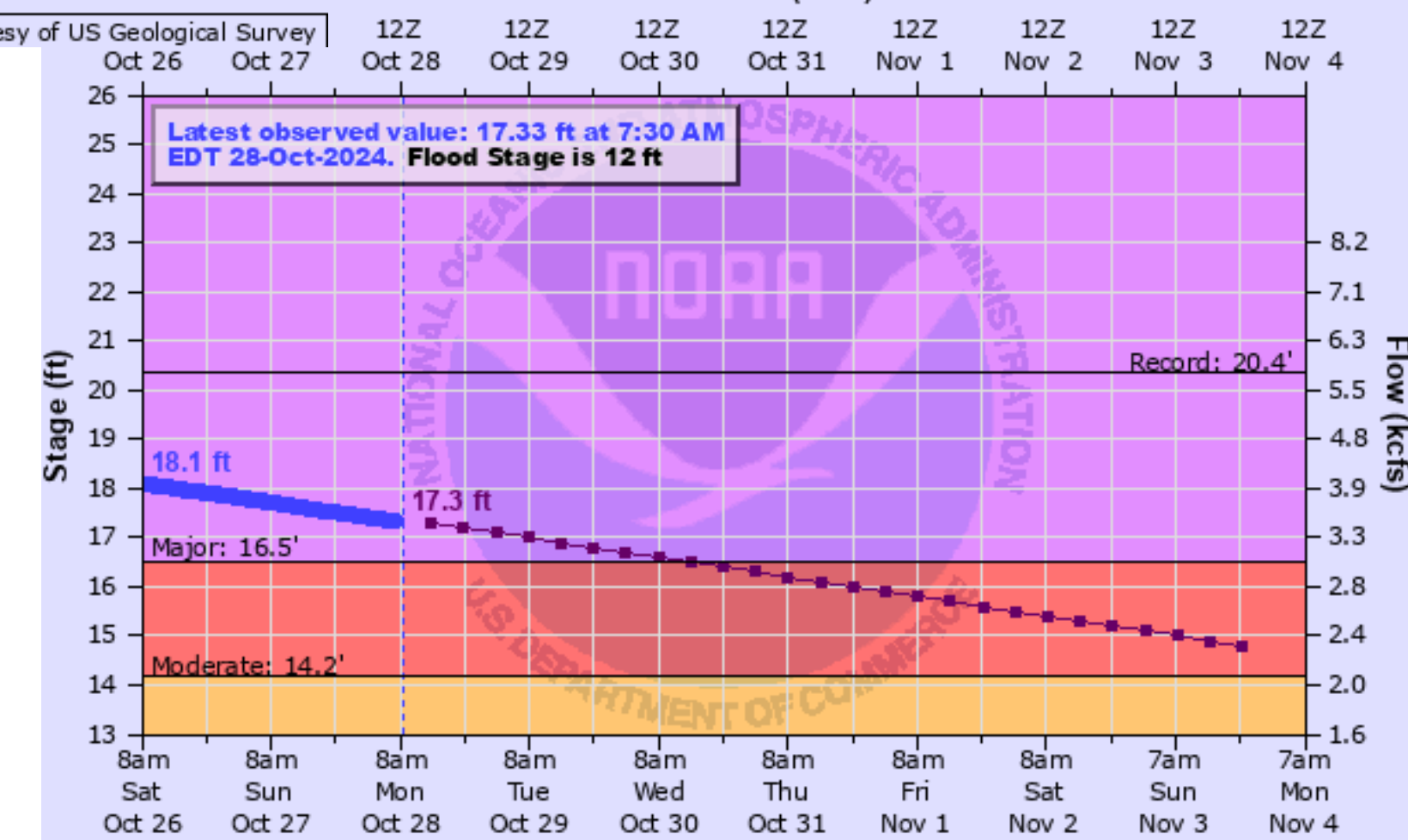
WITHLACOOCHEE RIVER (FL) NEAR HOLDER AT SR 200

Universal Time (UTC)



WITHLACOOCHEE RIVER (FL) AT US 301 TRILBY

Universal Time (UTC)

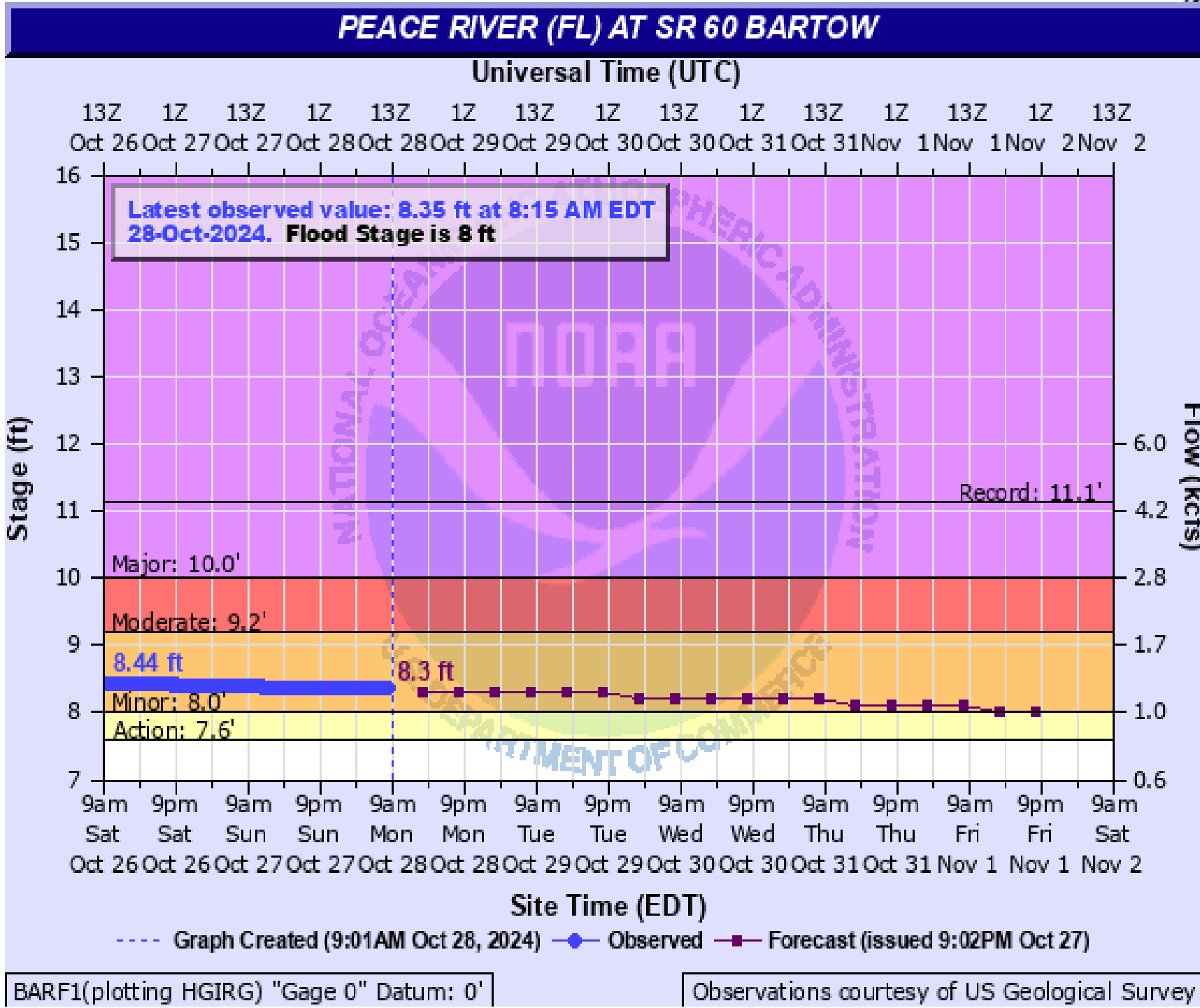
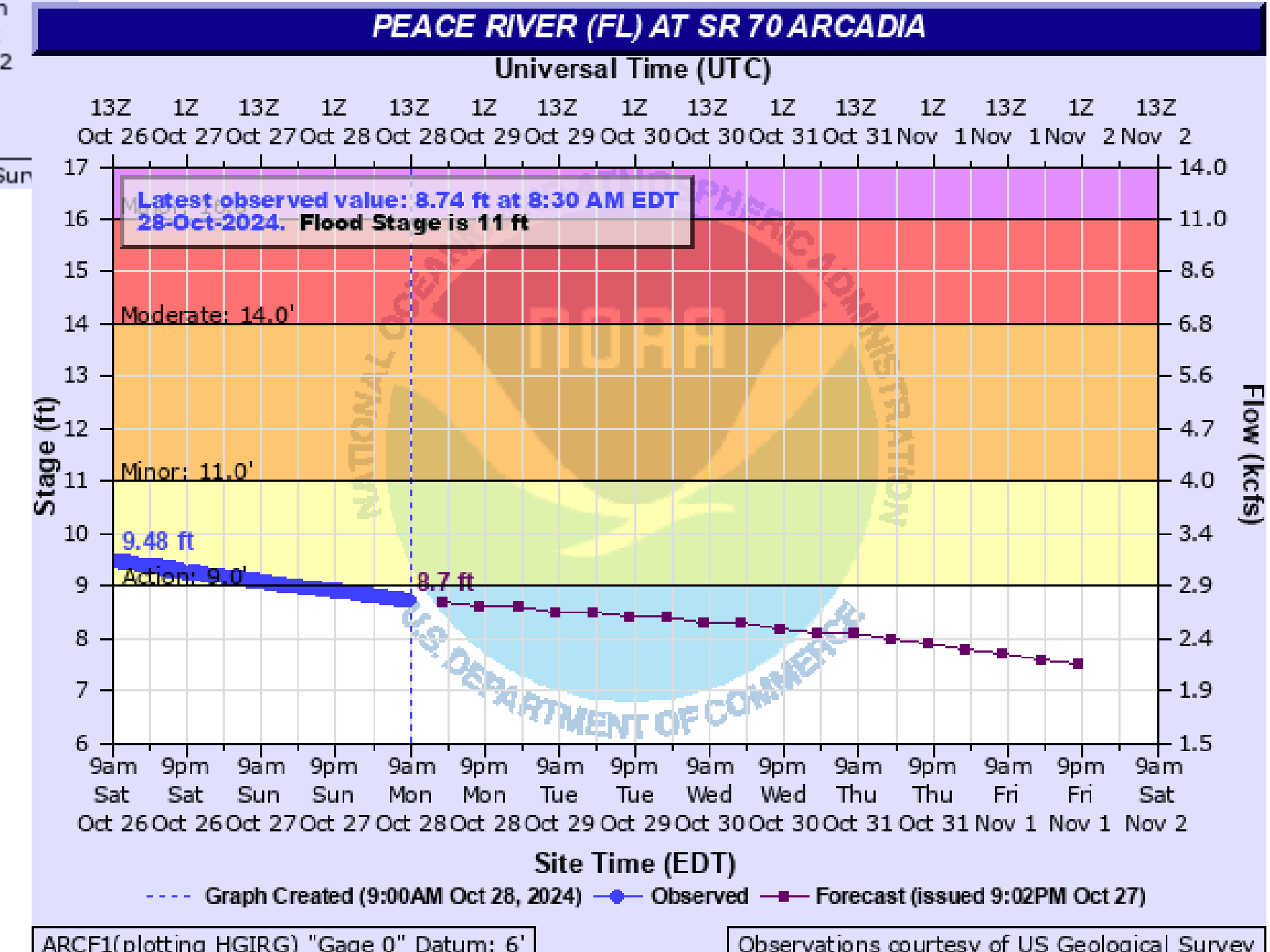
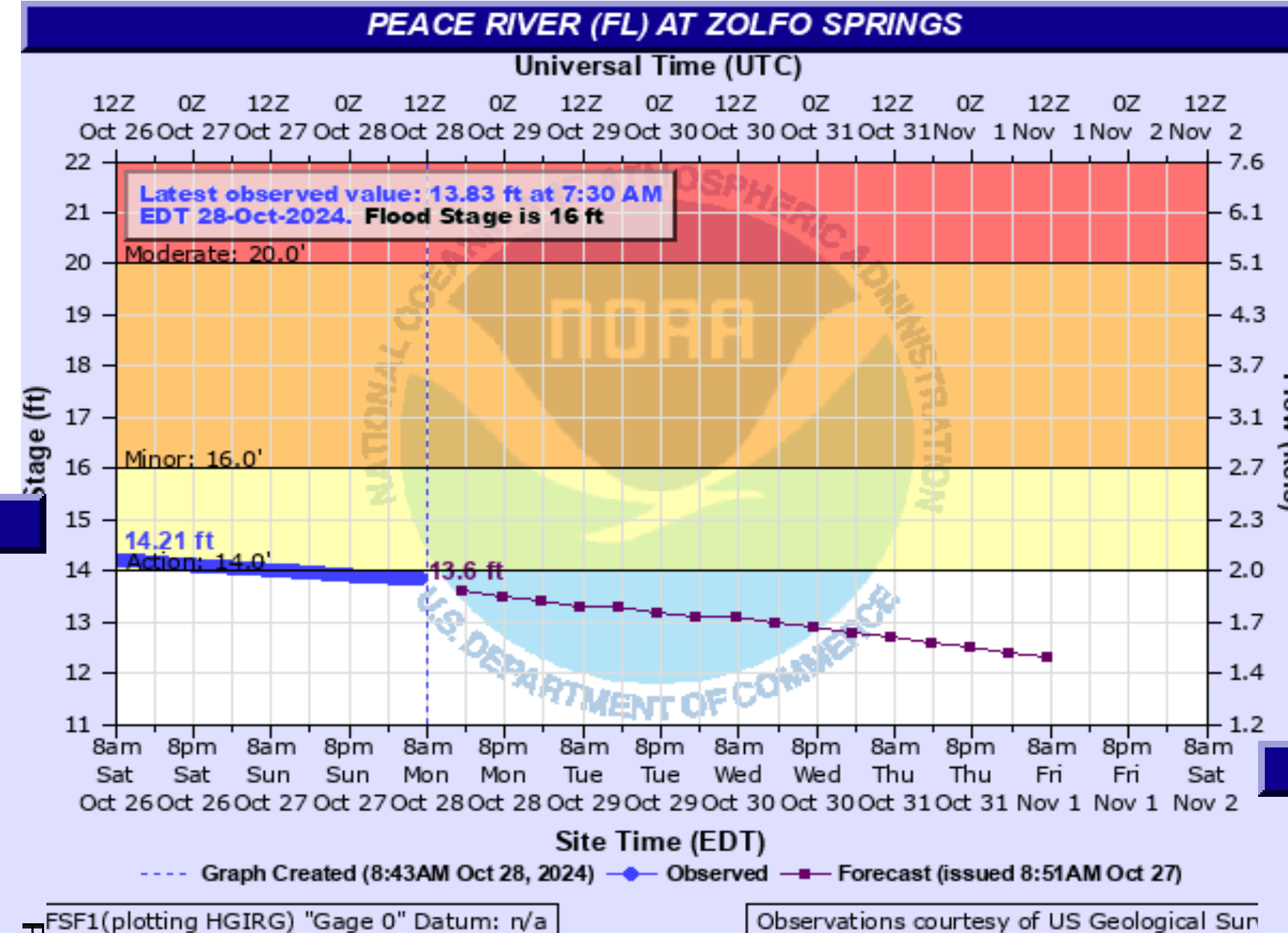


River Forecasts



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Flooding on Peace River Continues at Bartow

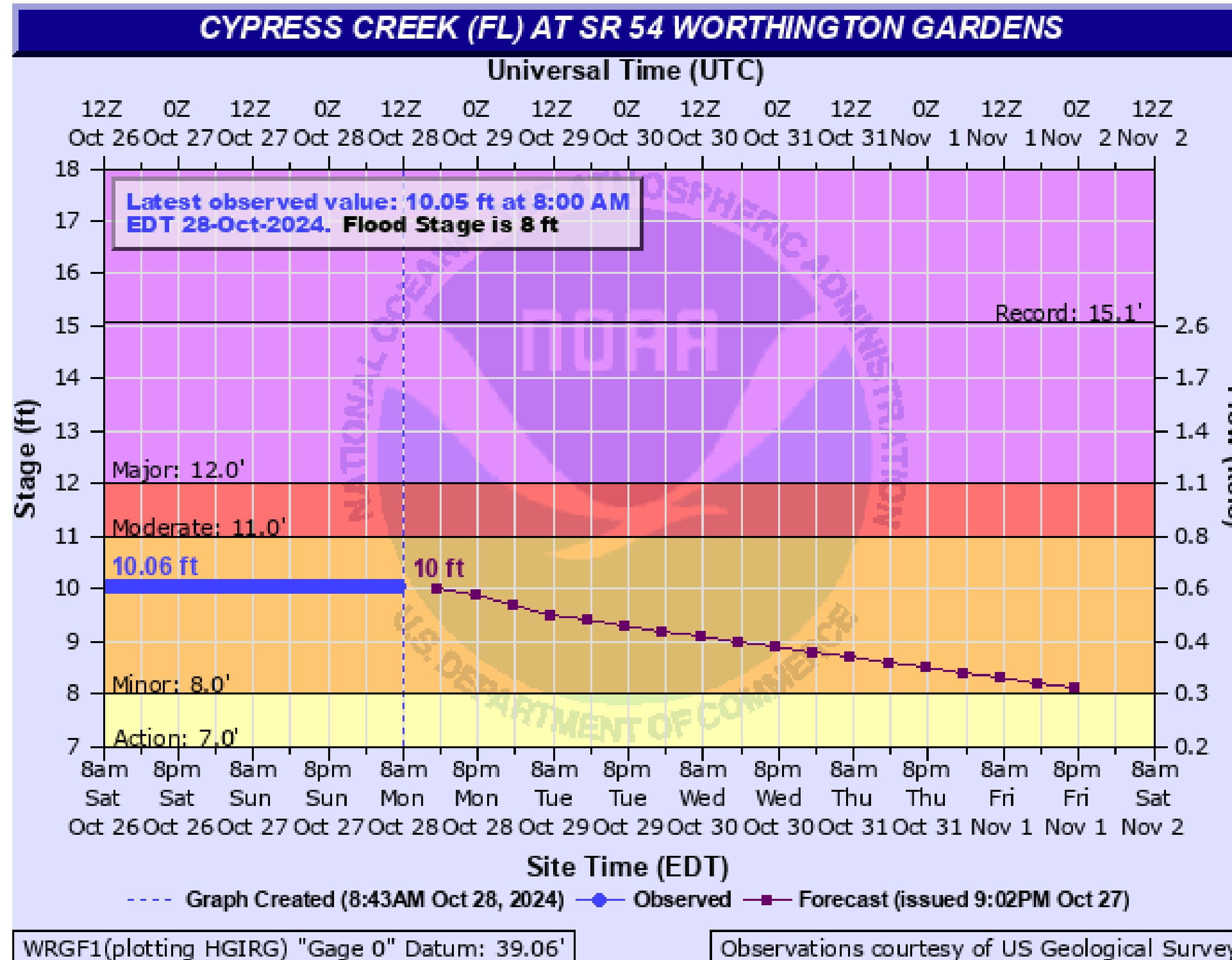


River Forecasts

Cypress Creek Flooding Persists



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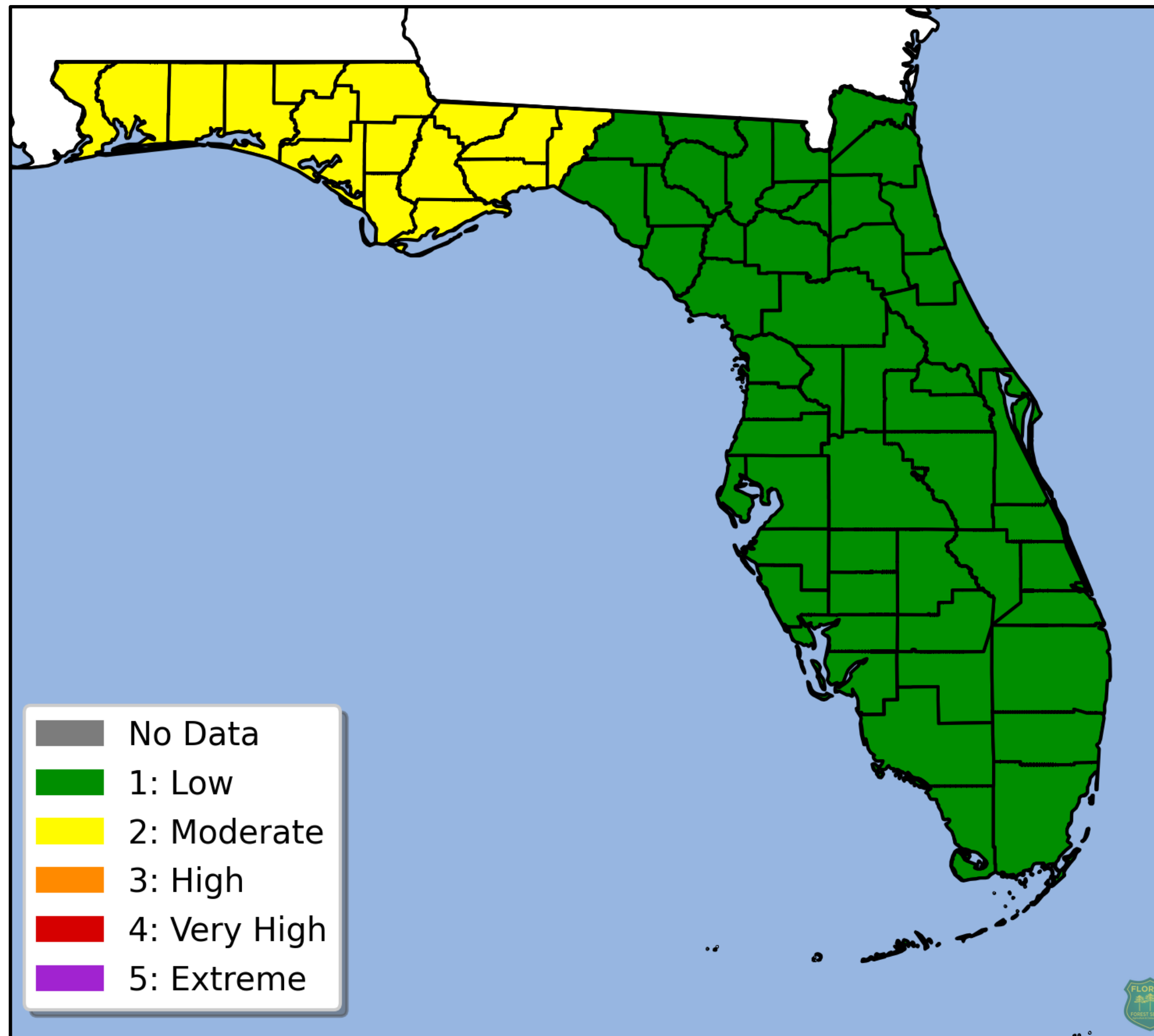
Fire Danger



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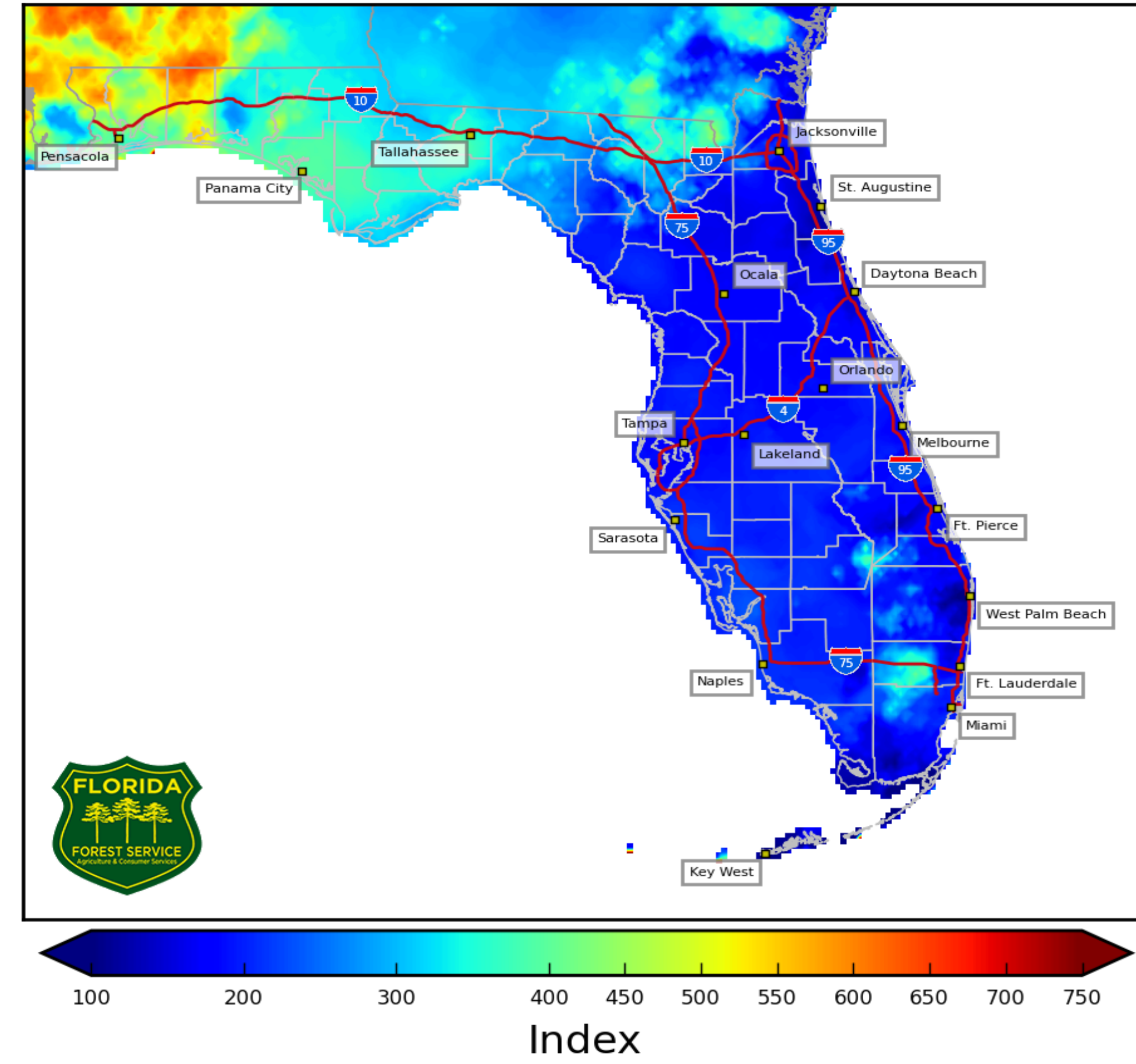
Current Fire Danger and Keetch-Byram Drought Index (KBDI)

Current Wildfire Fire Danger Index



- Despite the recent dry pattern, no fire danger concerns at this time as soil moisture levels remain sufficient.

Keetch-Byram Drought Index



Low

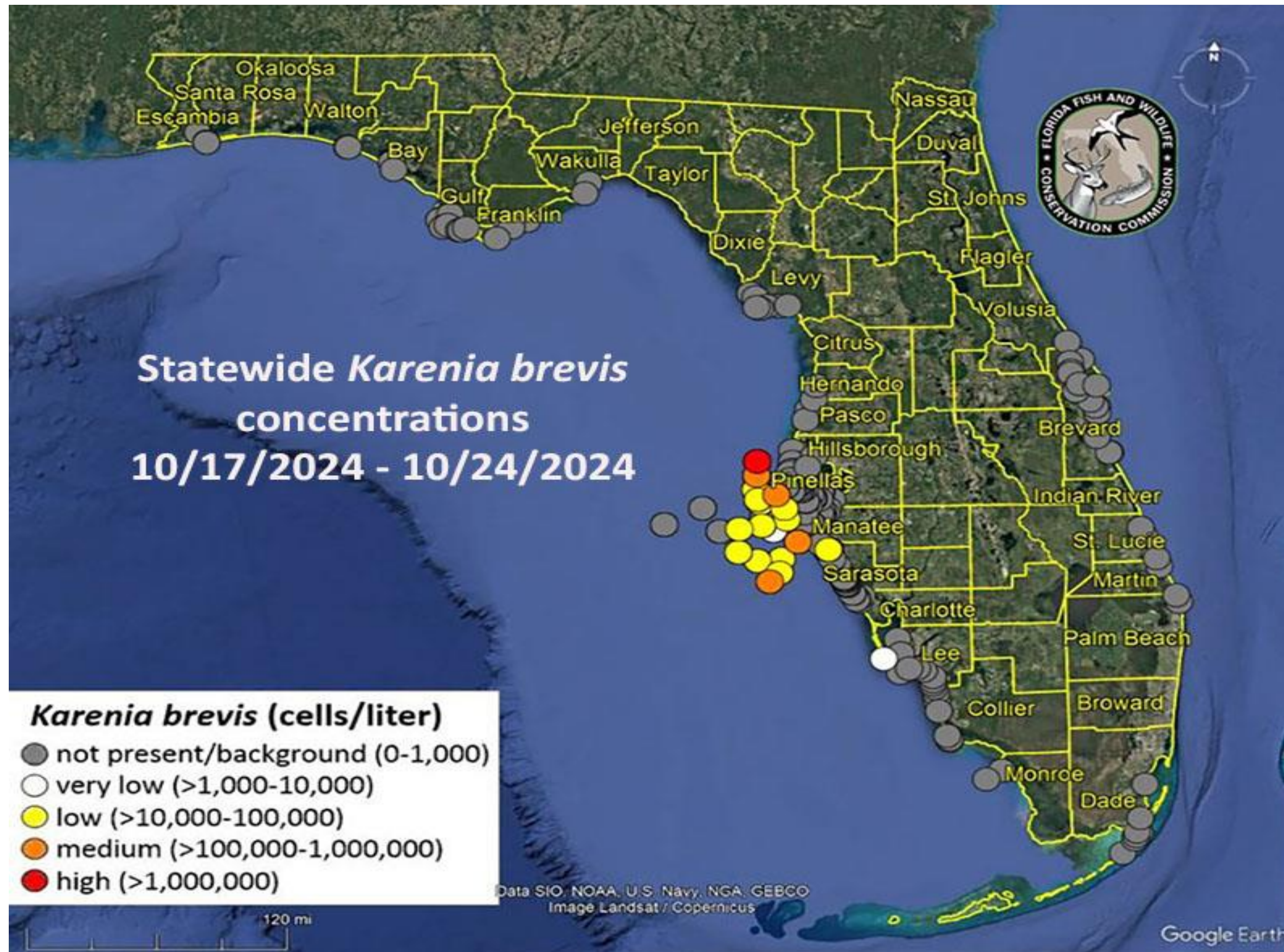
High

Red Tide Status



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Locations of Algae Bloom Across Florida Gulf Coast



- In general, low to medium concentrations of red tide have been more common in west central Florida waters, though some report of high concentrations have also been observed.

8-14 Day Temperature & Precipitation Outlook

West Central and Southwest Florida



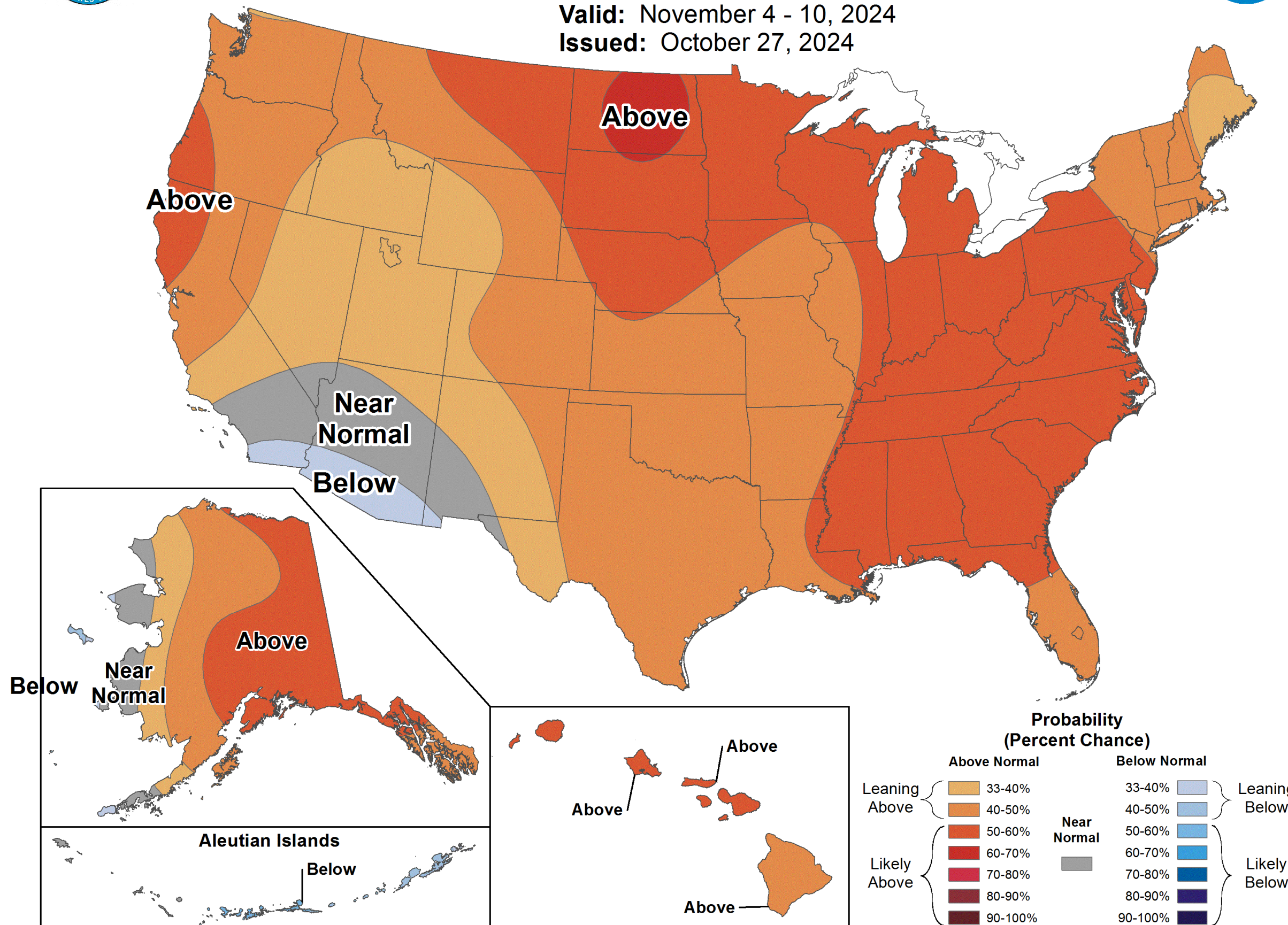
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A 40%-50% chance of above normal temperatures and a near normal to 30%-40% chance of above normal precipitation of the next 8-14 days.

Temperature Outlook

8-14 Day Temperature Outlook

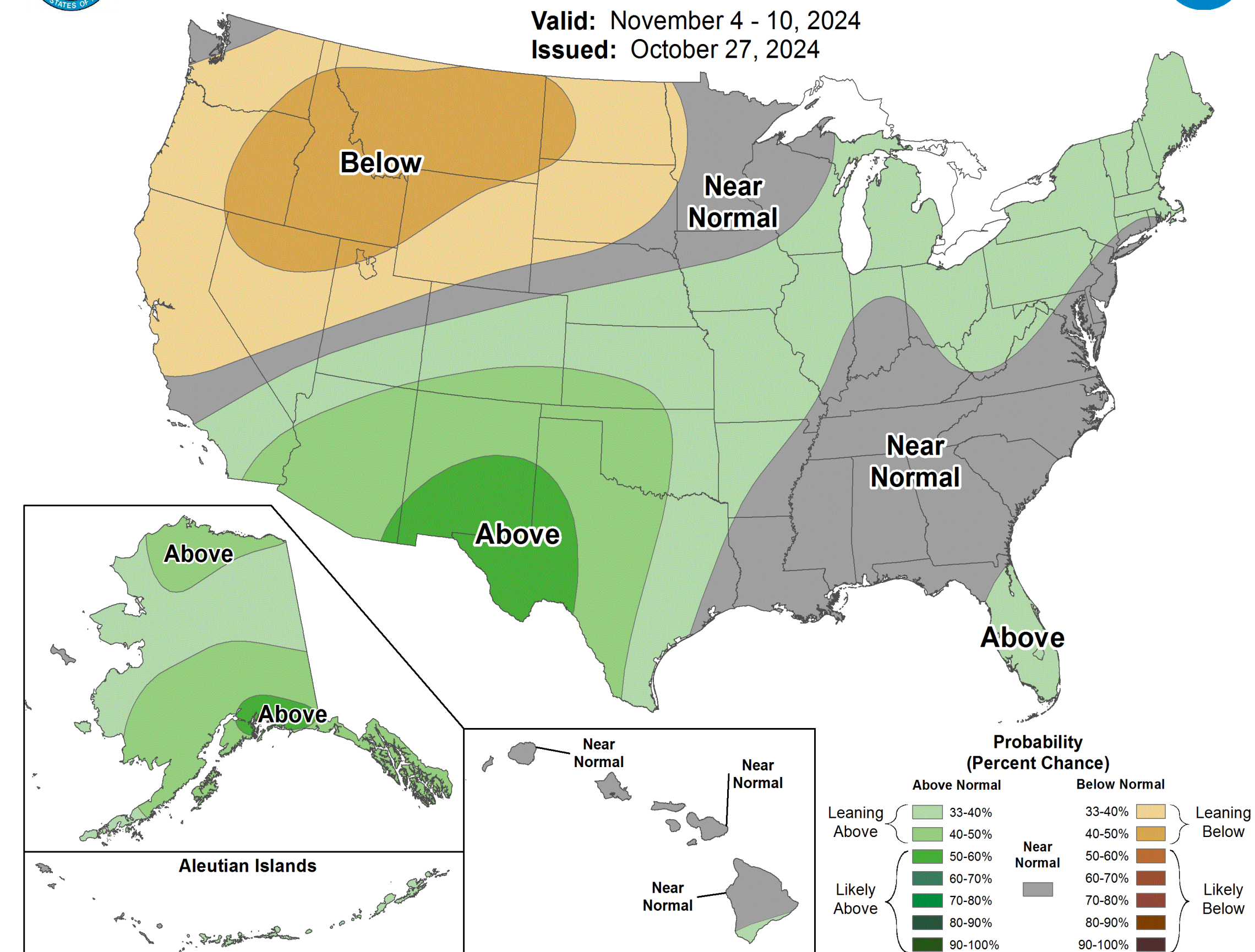
Valid: November 4 - 10, 2024
Issued: October 27, 2024



Precipitation Outlook

8-14 Day Precipitation Outlook

Valid: November 4 - 10, 2024
Issued: October 27, 2024



3 Month Temperature & Precipitation Outlook



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West Central and Southwest Florida

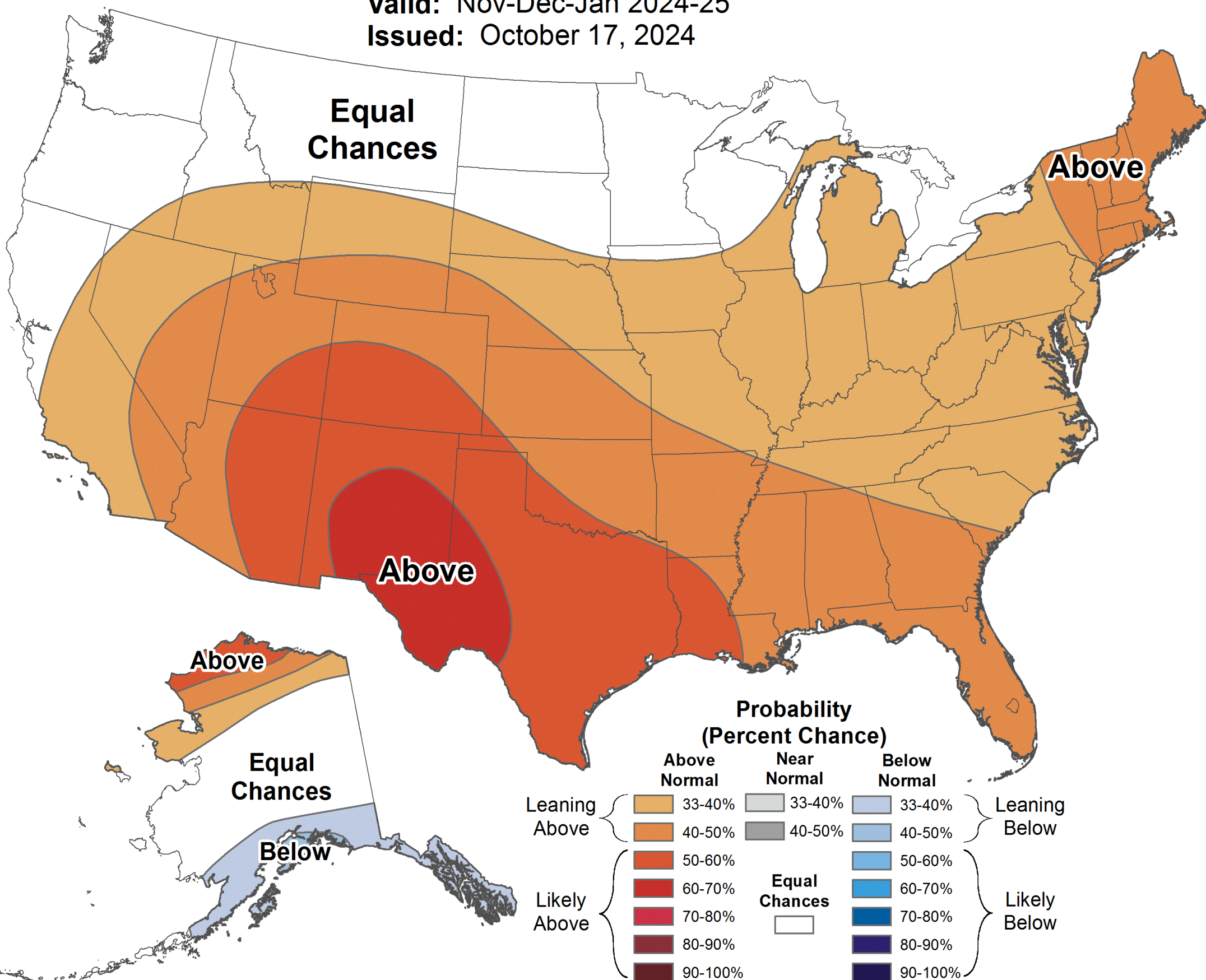
A 40%-50% chance of above normal temperatures and a 40%-50% chance of below normal precipitation through January 2025.



Seasonal Temperature Outlook



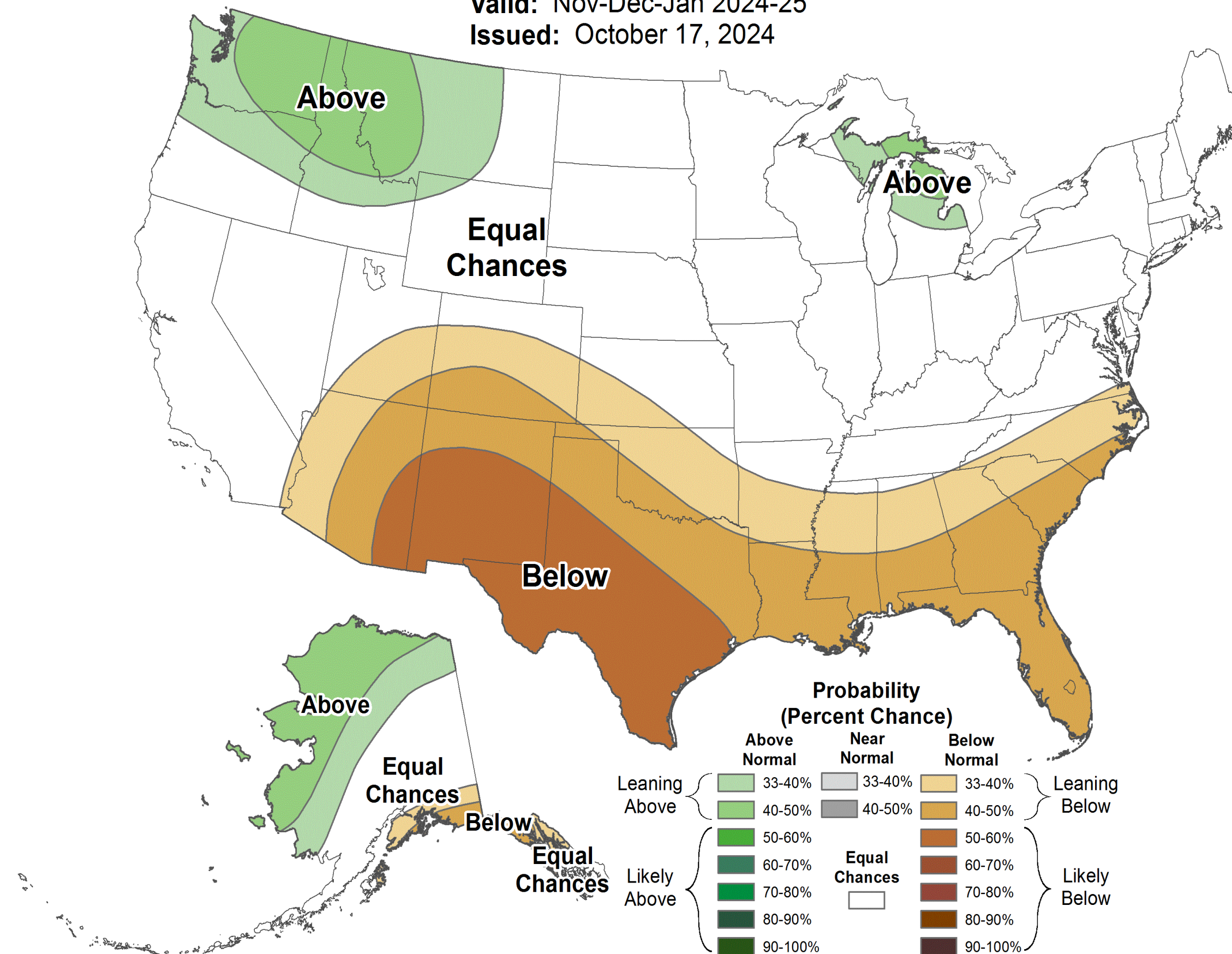
Valid: Nov-Dec-Jan 2024-25
Issued: October 17, 2024



Seasonal Precipitation Outlook



Valid: Nov-Dec-Jan 2024-25
Issued: October 17, 2024



Current ENSO Status

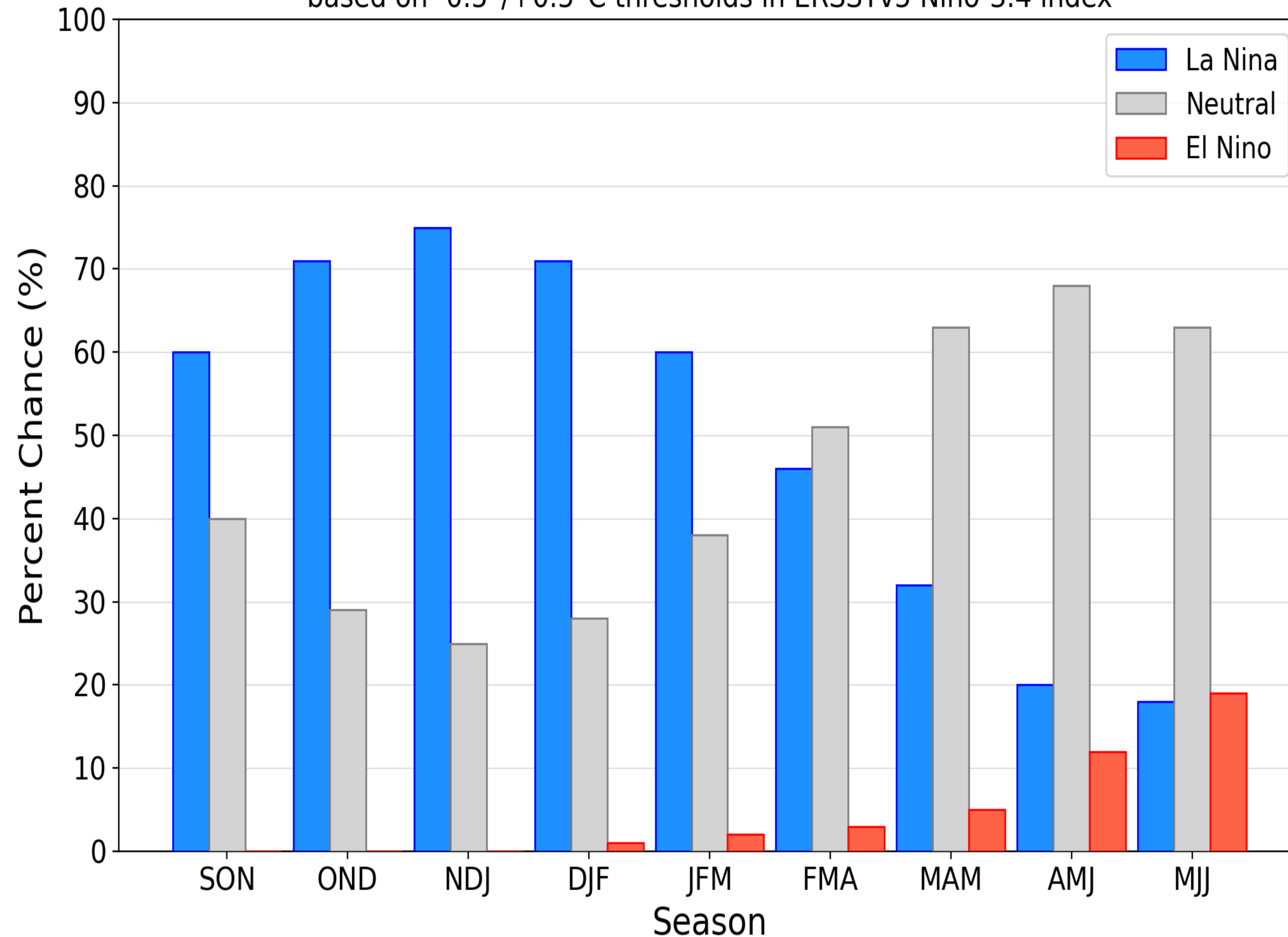
La Nina Favored to Emerge



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Official NOAA CPC ENSO Probabilities (issued October 2024)

based on $-0.5^{\circ}/+0.5^{\circ}\text{C}$ thresholds in ERSSTv5 Niño-3.4 index



- Neutral conditions are present but La Nina is favored to emerge in the coming months, which may persist through early 2025.

Weekly Weather Forecast



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5 Day Forecast

| | Mon | Tue | Wed | Thu | Fri |
|--------------------|-------|-------|-------|-------|-------|
| Chiefland | 61 82 | 62 84 | 66 85 | 63 84 | 62 85 |
| Brooksville | 63 84 | 65 85 | 68 85 | 64 85 | 64 85 |
| Tampa | 66 84 | 67 85 | 70 86 | 67 85 | 67 86 |
| Lakeland | 65 83 | 67 84 | 69 85 | 66 84 | 66 85 |
| Sarasota/Bradenton | 66 85 | 68 87 | 69 87 | 67 86 | 67 87 |
| Sebring | 65 83 | 67 84 | 69 84 | 67 83 | 66 85 |
| Fort Myers | 67 84 | 68 86 | 71 86 | 69 84 | 69 86 |

@NWSTampaBay

Graphic Created at 2024-10-28 05:10 AM

5 Day Forecast

| | Mon | Tue | Wed | Thu | Fri |
|------------------|-------|-------|-------|-------|-------|
| Crystal River | 62 82 | 63 85 | 66 85 | 64 84 | 63 85 |
| Villages | 63 82 | 65 84 | 68 85 | 66 84 | 65 85 |
| New Port Richey | 65 83 | 66 85 | 68 85 | 66 84 | 65 84 |
| Saint Pete | 68 82 | 68 85 | 71 86 | 69 85 | 68 85 |
| Lake Wales | 65 82 | 67 84 | 69 84 | 66 83 | 66 85 |
| Wauchula/Arcadia | 65 84 | 68 86 | 69 86 | 67 85 | 66 87 |
| Punta Gorda | 66 84 | 68 86 | 70 86 | 68 85 | 67 87 |

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Graphic Created at 2024-10-28 05:10 AM

Extended Hazards Outlook

Outlook Valid: Today Through Sun



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Filter Elements ▾

| | Today | Tue | Wed | Thu | Fri | Sat | Sun |
|---------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|
| Severe Thunderstorm | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| Tornado | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| Thunderstorm Wind | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| Hail | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| Lightning | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| Excessive Rainfall | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| Excessive Heat | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| Wind | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| Fog | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| Fire Weather | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| High Surf | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| Rip Current | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| Marine Hazard | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| Waterspout | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| Coastal Flood | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |

| Risk Level | Category |
|--------------------------|-------------|
| <input type="checkbox"/> | None |
| <input type="checkbox"/> | Limited |
| <input type="checkbox"/> | Elevated |
| <input type="checkbox"/> | Significant |
| <input type="checkbox"/> | Extreme |

| Risk Level | None | Slight | Moderate | High | Extreme |
|------------|------|--------|----------|------|---------|
| | | | | | |

Extended Marine Hazards Outlook

Marine Outlook Valid: Today Through Sun



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WEATHER FORECAST OFFICE

Filter Elements ▾

| | Today | Tue | Wed | Thu | Fri | Sat | Sun |
|------------------------|-------------------------------------|-------------------------------------|-------------------------------------|-------------------------------------|-------------------------------------|--------------------------|--------------------------|
| i High Surf | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | | |
| i Rip Current | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | | |
| i Marine Hazard | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| i Coastal Flood | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | | |

| Risk Level | Category |
|-------------------------------------|-------------|
| <input type="checkbox"/> | None |
| <input checked="" type="checkbox"/> | Limited |
| <input type="checkbox"/> | Elevated |
| <input type="checkbox"/> | Significant |
| <input type="checkbox"/> | Extreme |

| Risk Level | None | Slight | Moderate | High | Extreme |
|------------|------|--------|----------|------|---------|
| | | | | | |

Tropical Weather Overview

Seven-Day Tropical Outlook



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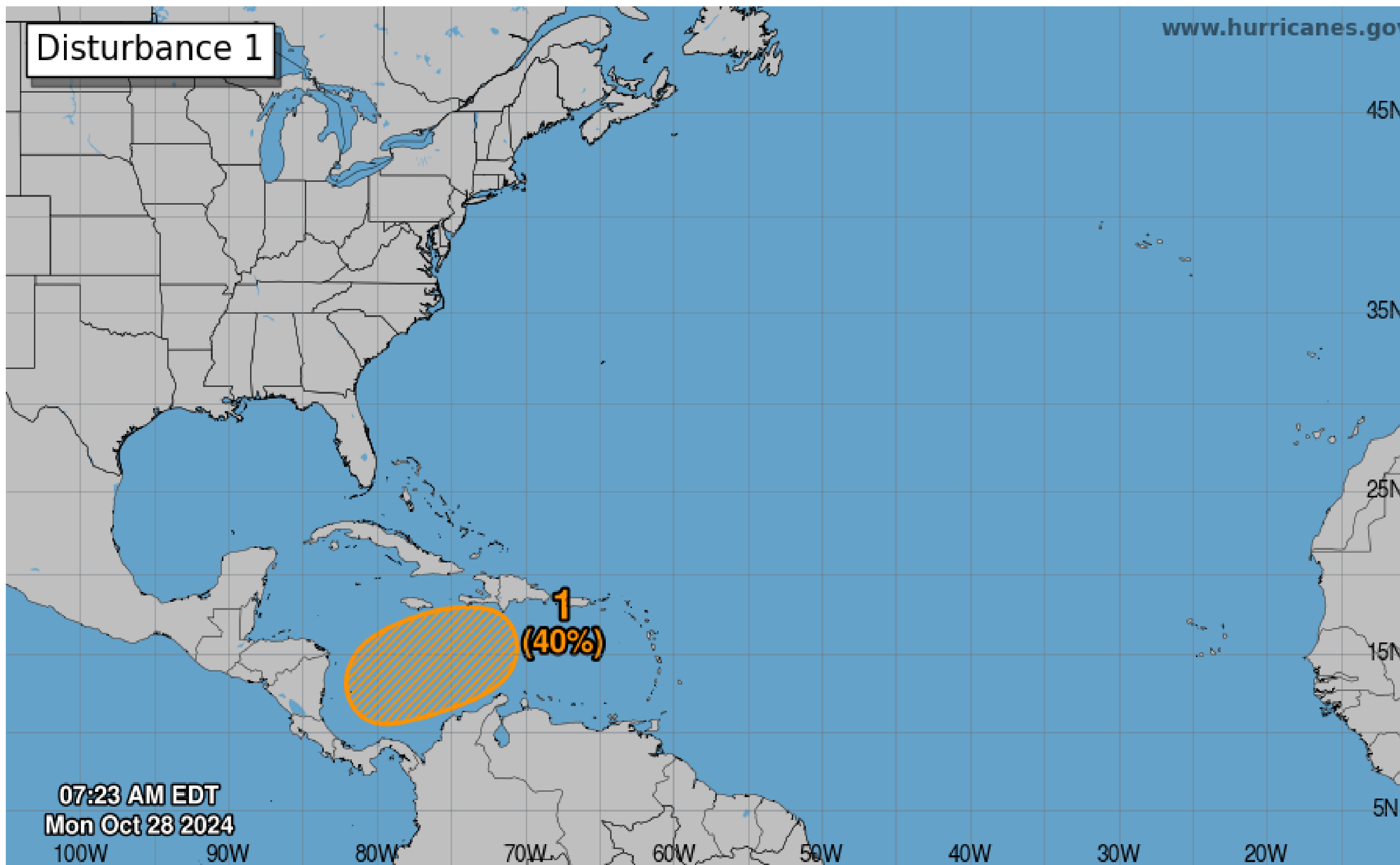


Seven-Day Graphical Tropical Weather Outlook

National Hurricane Center Miami, Florida



www.hurricanes.gov



Current Disturbances and Seven-Day Cyclone Formation Chance: < 40% 40-60% > 60%
Tropical or Sub-Tropical Cyclone: Depression Storm Hurricane
 Post-Tropical Cyclone or Remnants

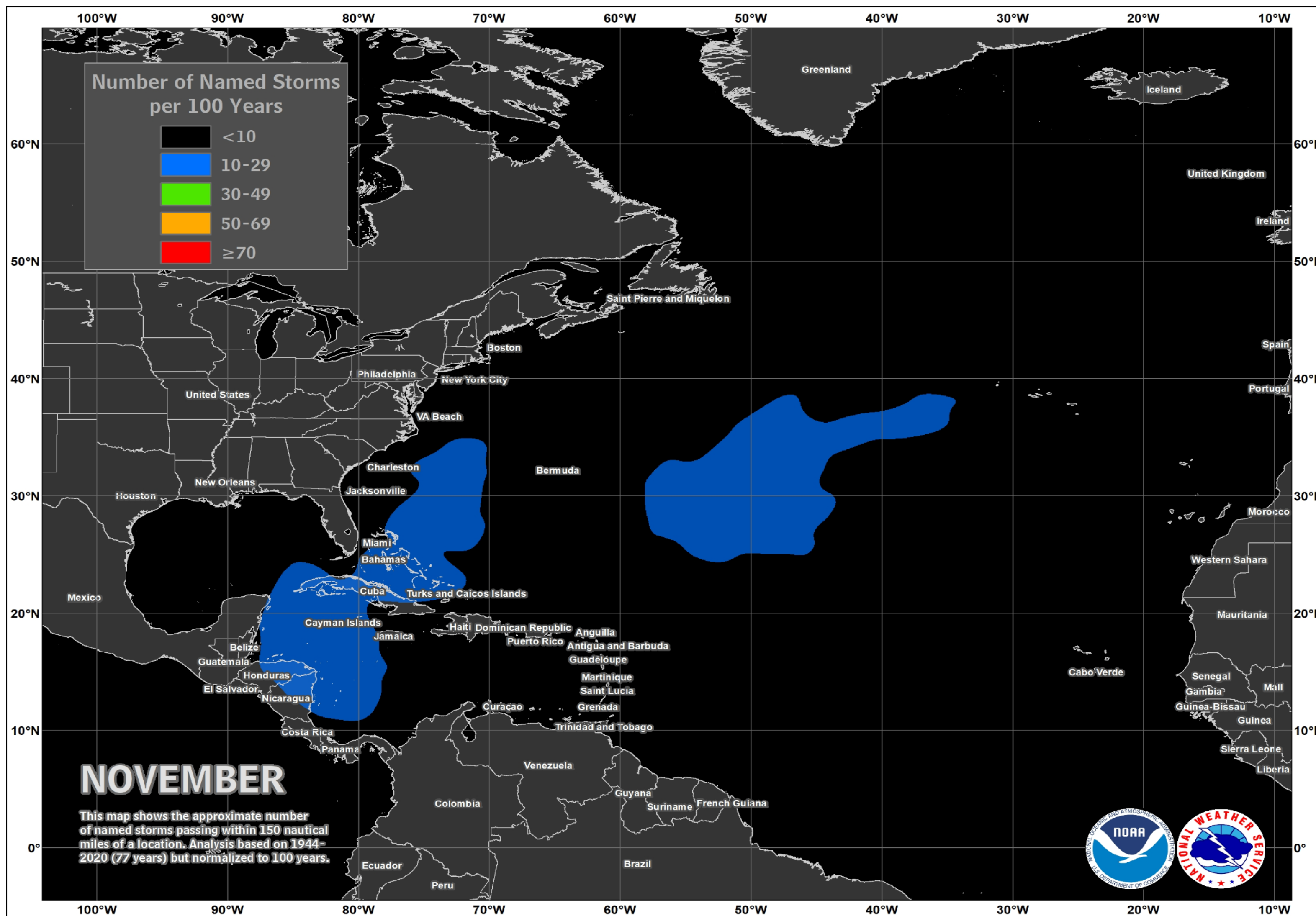
- A broad area of low pressure is expected to develop in the southwestern Caribbean Sea over the coming days.
- Some gradual development of this system may occur by late week into the weekend as this feature drifts to the north-northeast
- While impacts are not expected to west central and southwest Florida at this time, the overall track of this system in the long term is still uncertain and feature will be closely monitored throughout the week.

Tropical Cyclone Climatology



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Where do Tropical Cyclones Develop in November?



- On average, one to two storms occur every other year.
- Storms typically occur in the western Caribbean or west-central Atlantic

Questions? Comments?



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