



Decision Support Briefing #1

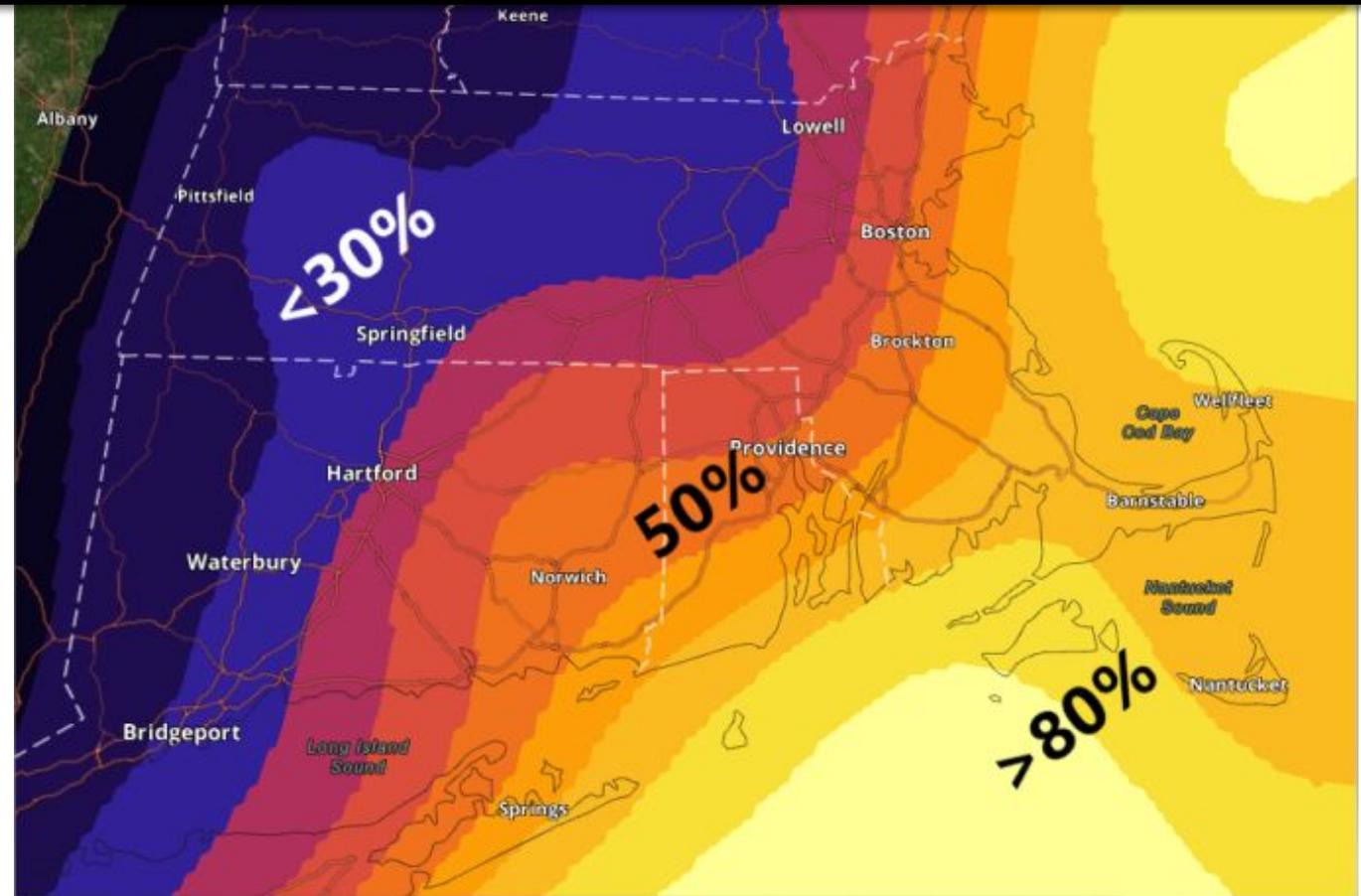
→ Friday December 15th 2023, 4PM

NEW Potential for:

- Strong to damaging winds
- Coastal Flooding
- Flooding Rain
- Hazardous Marine Travel

Timing: Overnight Sunday and Monday

Probability of Wind Gusts Greater than 58 mph





Key Points

December 15, 2023
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Hazard		Impacts	Location	Timing
Damaging Wind		Downed trees/power lines and power outages	RI/MA south coast, including Cape/Islands	Overnight Sunday into Monday
Coastal Flooding		Minor to moderate flooding coastal roads	Narragansett Bay, and RI/MA south coast	Monday noon high tide
Flooding Rain		Significant street flooding & Minor/moderate river/stream flooding	West of I-95 corridor, especially CT into adjacent MA	Overnight Sunday into Monday
Hazardous Winds/Seas		Dangerous sea conditions for vessels	MA and RI waters	Sunday evening through Monday night



Summary of Greatest Impacts

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Wind: All of southern New England, especially coast

None Limited Elevated Significant Extreme



Coastal Flooding: South Coastal MA and RI

None Limited Elevated Significant Extreme



Flooding Rain: CT and western MA

None Limited Elevated Significant Extreme



Marine Travel: MA and RI waters

None Limited Elevated Significant Extreme



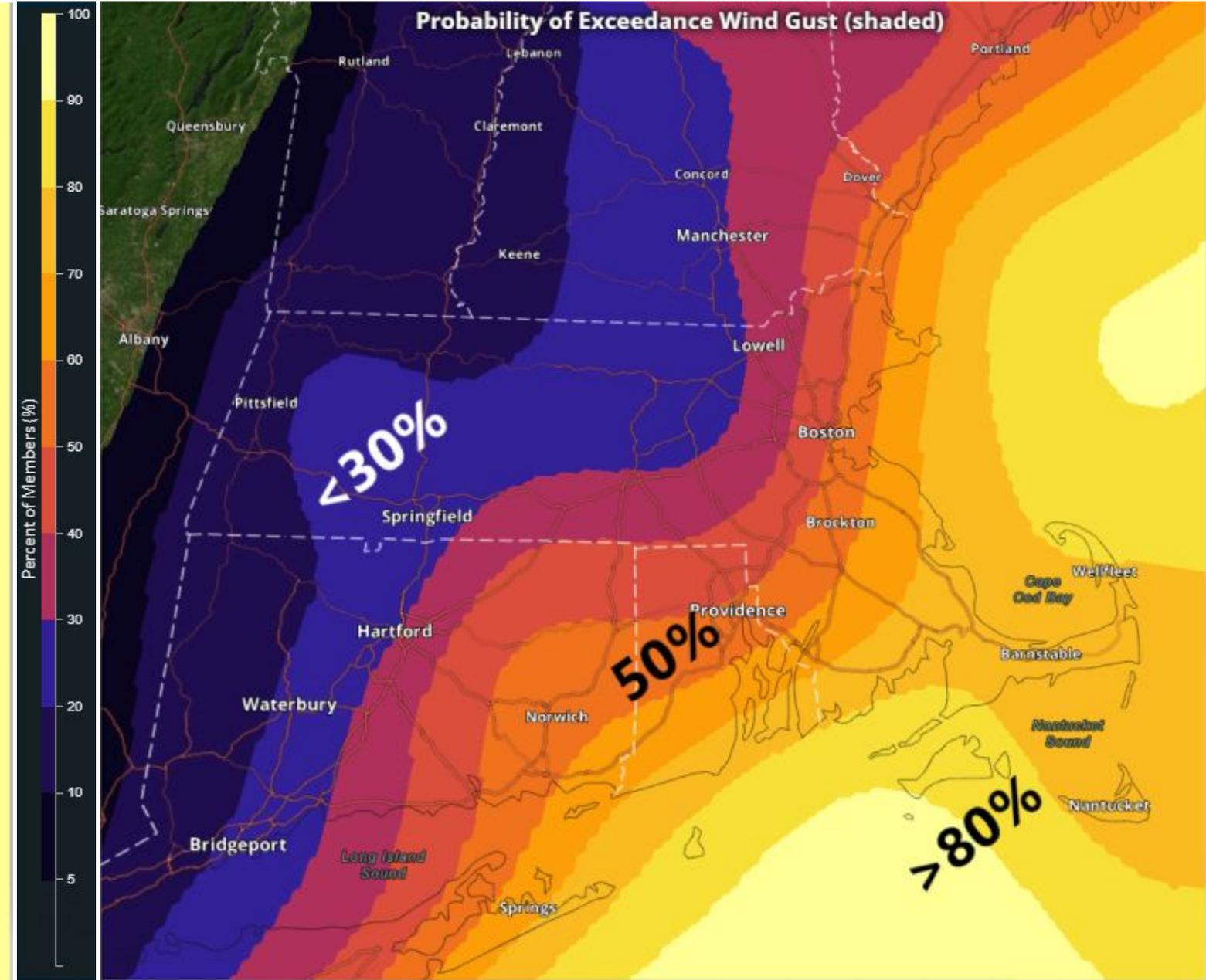
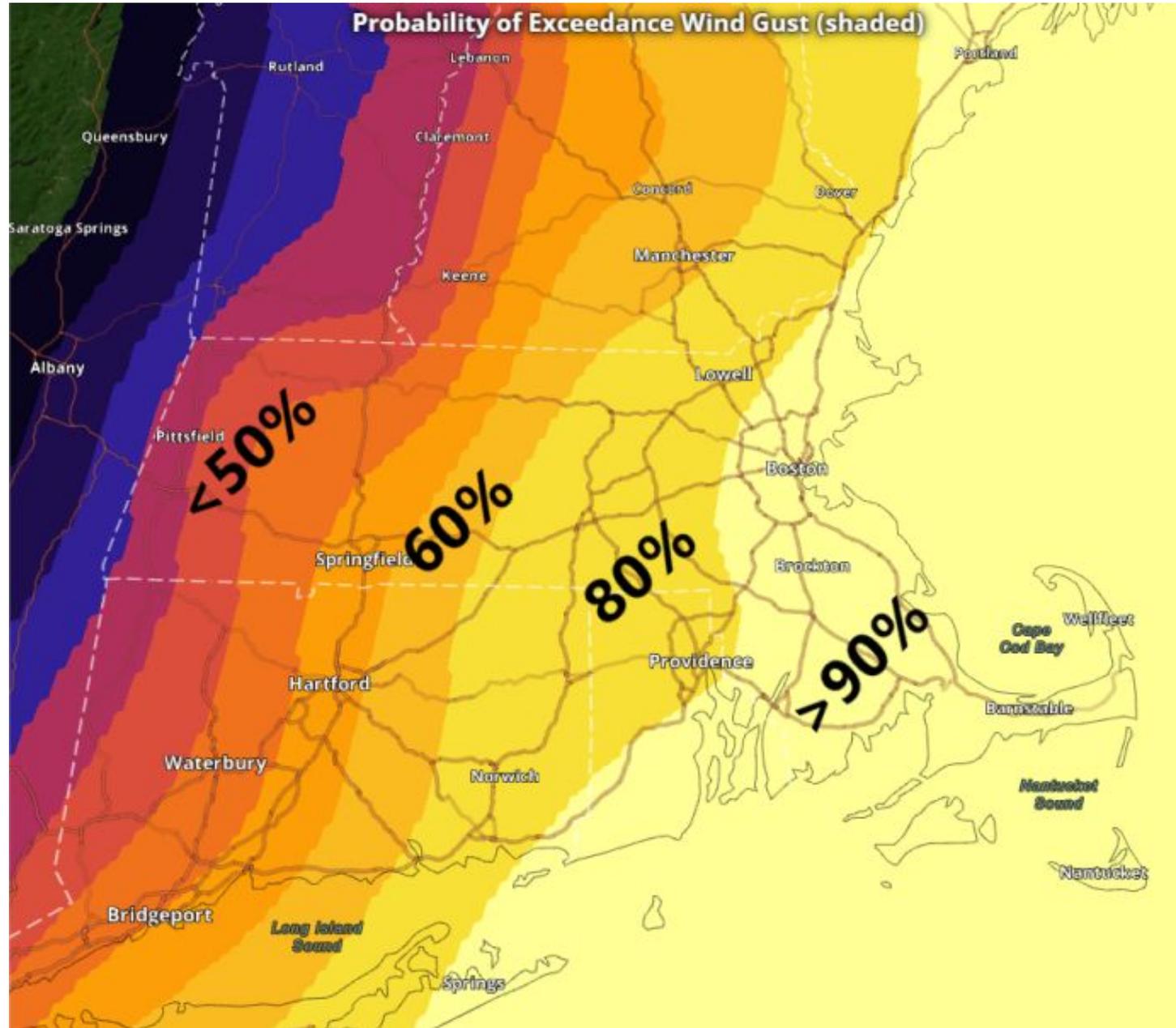


Wind Probabilities

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Wind Advisory: 46 MPH

High Wind Warning: 58 MPH





Anticipated Rain Totals

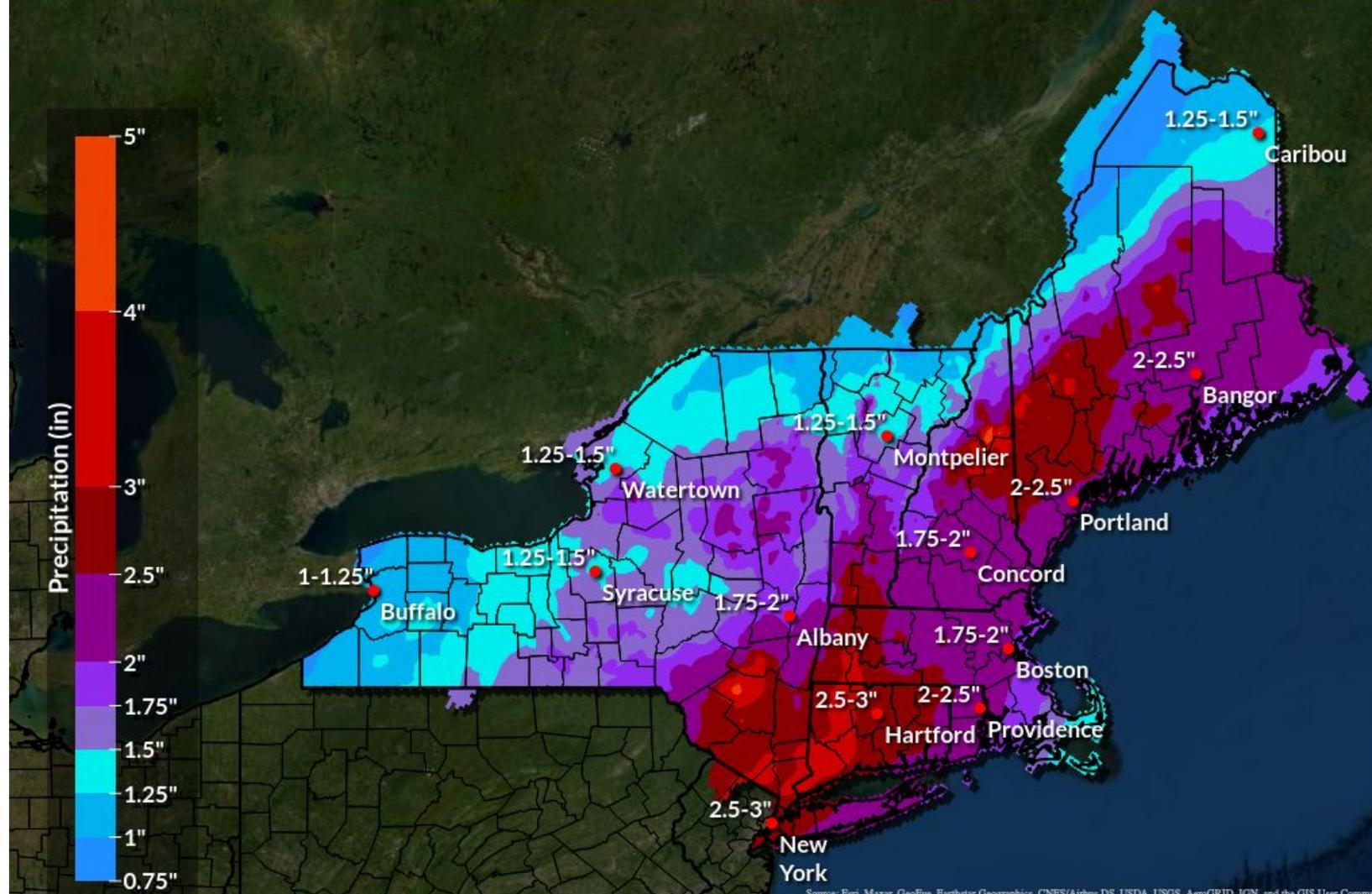
December 15, 2023
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5 Day WPC Precipitation Forecast

Valid Fri 7:00AM through Wed 7:00AM EST

River Forecast Center
Northeast RFC

Issued Dec 15, 2023 7:05 AM EST



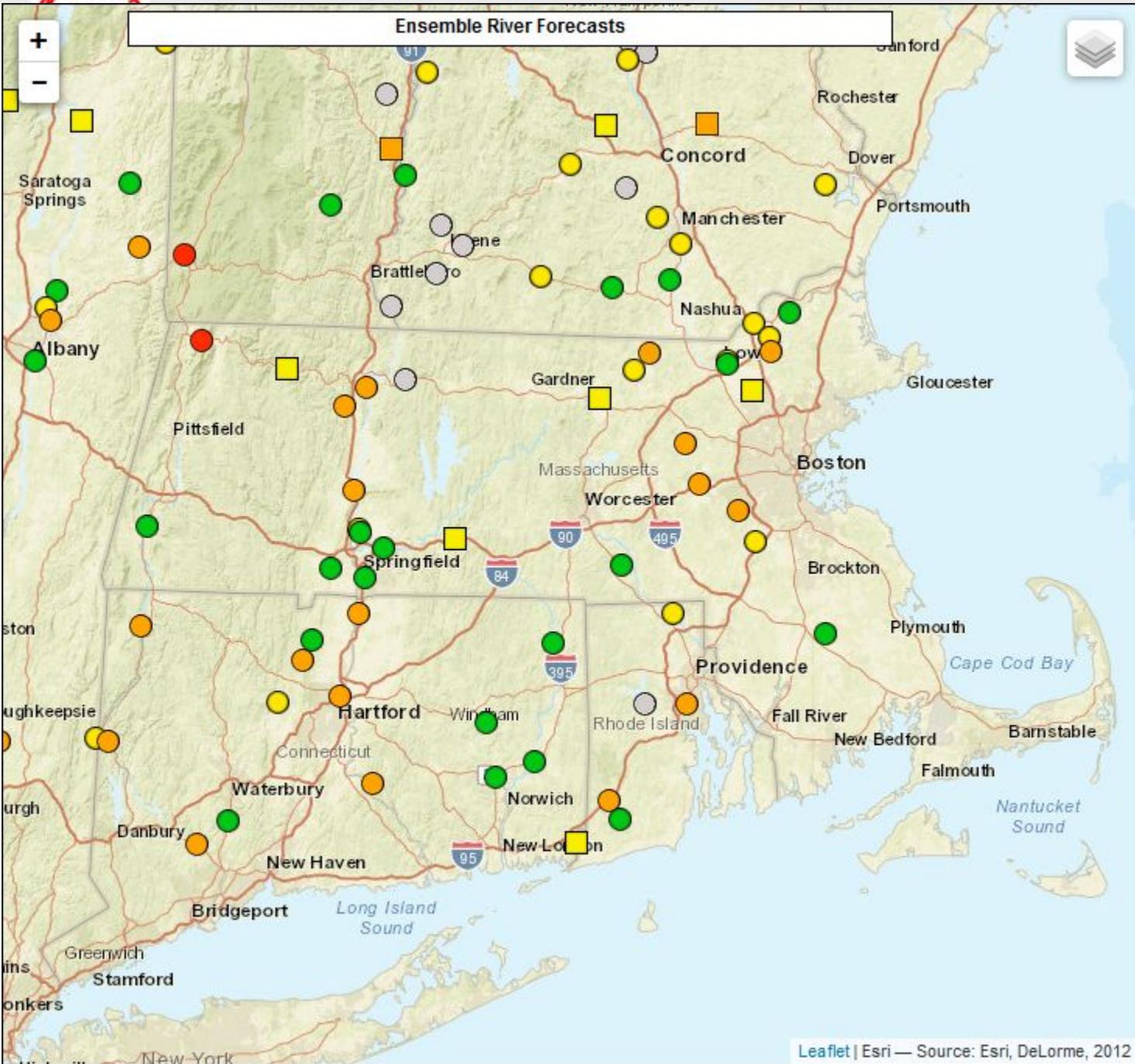
f NWSNERFC

weather.gov/nerfc



River Flood Outlook

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- Minor river flooding is possible
- Extent and level of flooding is highly dependent on rainfall amounts
- Still uncertainty regarding highest rainfall totals

(Orange circles = 30% chance)

Extent and level of flooding is dependent upon rainfall amounts

Chance of Exceedance		
30%	Level	70%
	Action	
	Minor Flood	
	Moderate Flood	
	Major Flood	
	= less than 30% chance of reaching Action level	
	= no critical levels defined for this point	



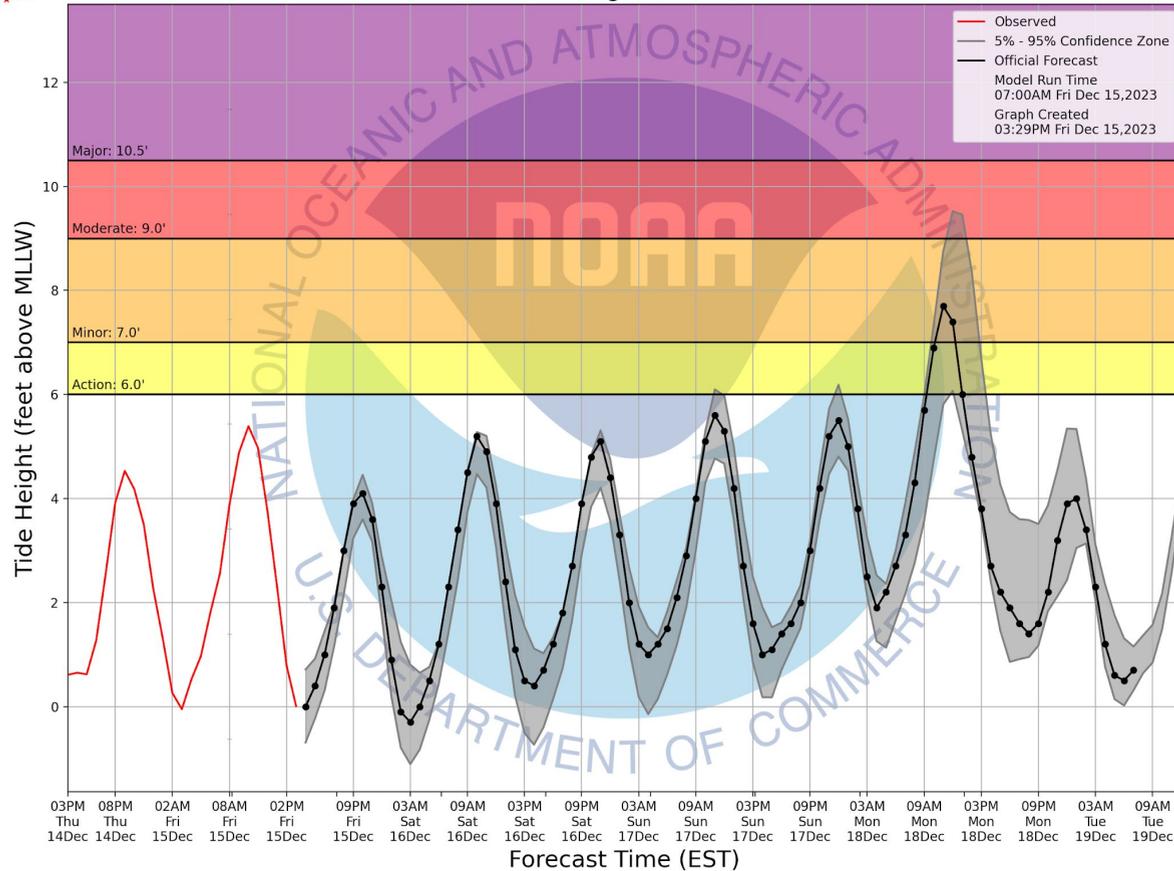
Coastal Flooding

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Total Water Level Forecast: Providence



Narragansett Bay at Fox Point, RI
Tide Height (MLLW)



- Minor to moderate flooding most likely during the Monday noon high tide for areas adjacent to Narragansett Bay
- Lower risk of very minor flooding along the rest of RI/MA south and east coasts



Minor

Moderate

Minor: flooding less than one foot deep

Moderate: flooding 1 to 2 feet deep



Coastal Flood Forecast

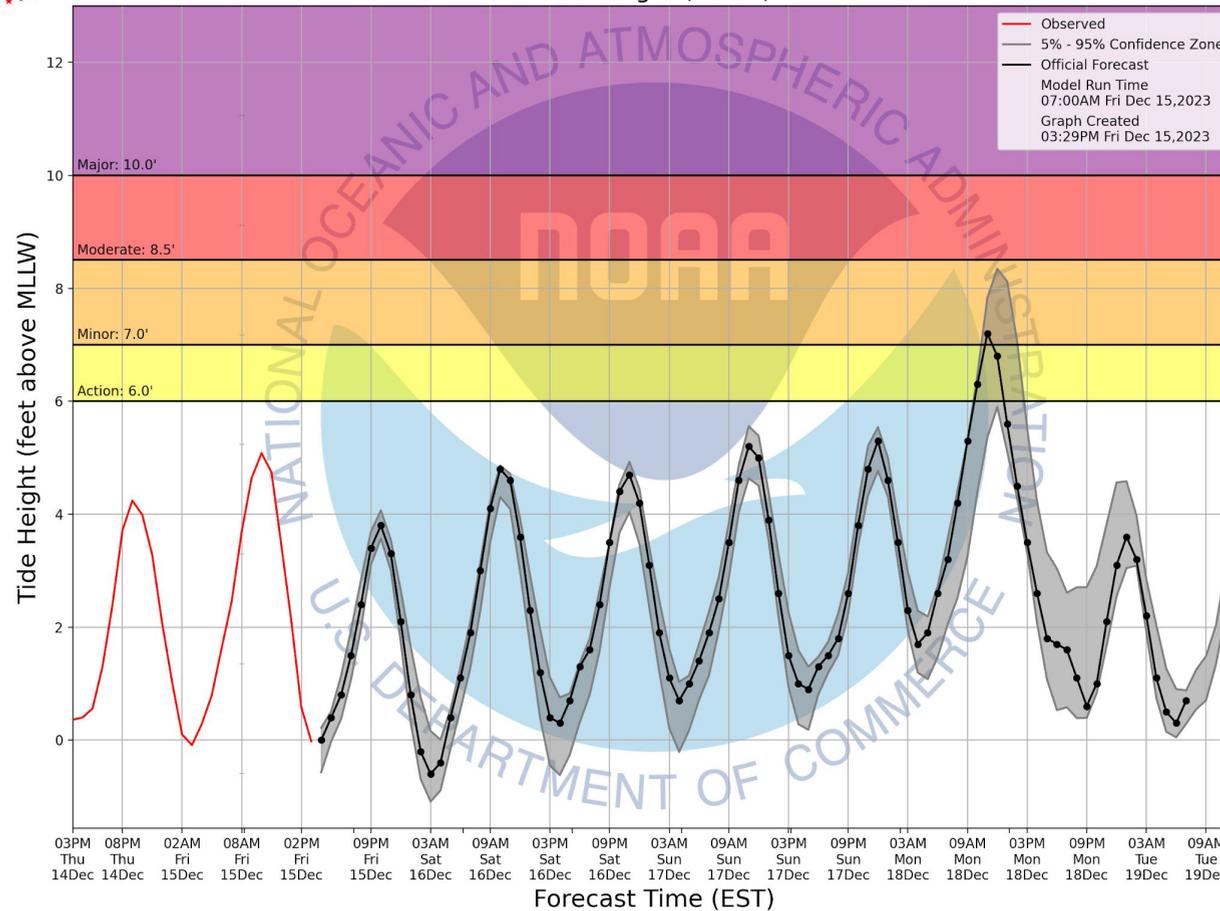
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Increased Threat for Minor to Moderate Coastal Flooding for Coastal RI and Southern MA

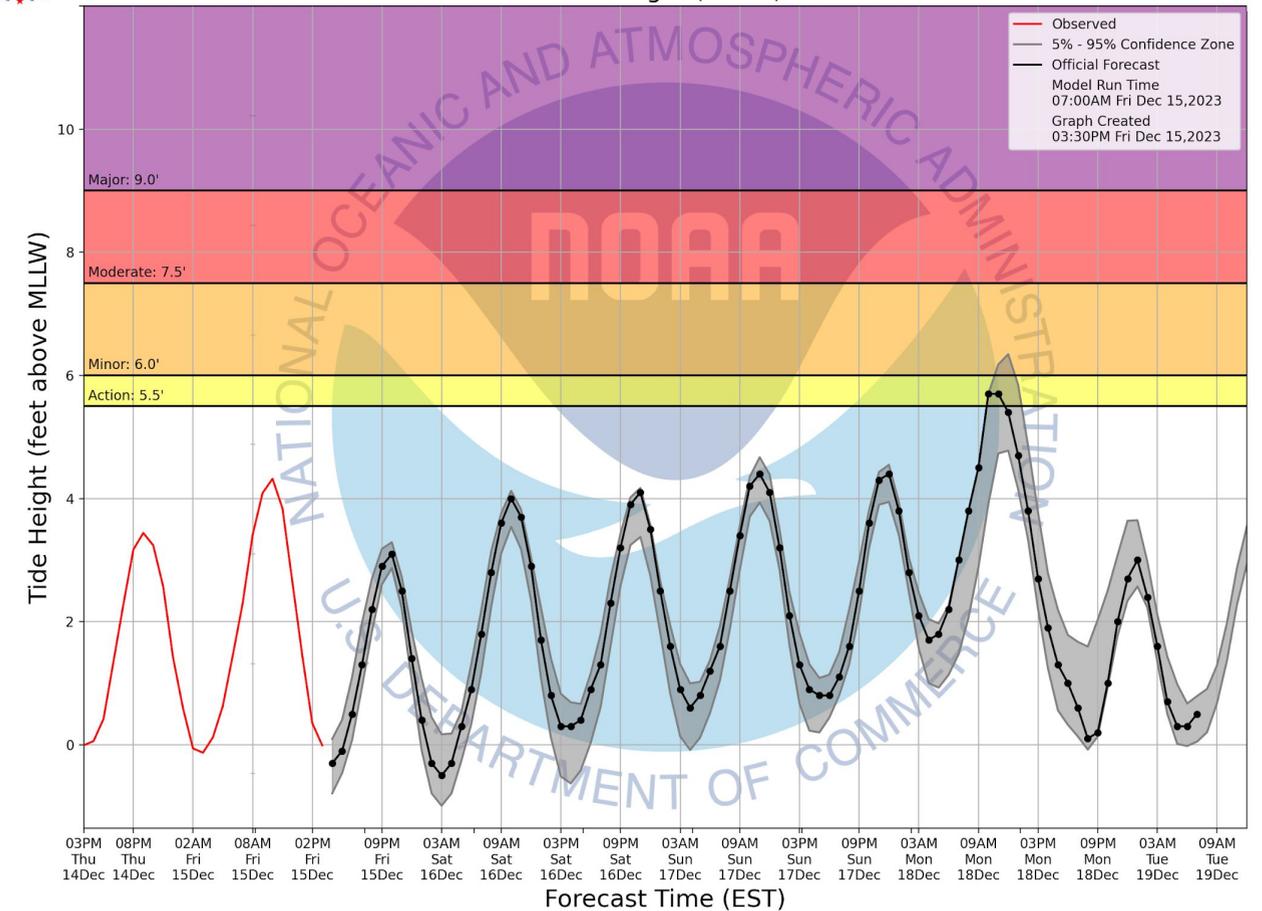
****Flood threat is contingent on the Monday lunchtime high tide coinciding with the timing of highest southeast winds.****



Narragansett Bay at Conimicut Light, RI
Tide Height (MLLW)



Narragansett Bay at Newport Harbor, RI
Tide Height (MLLW)





Threat Event Summary

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➤ **Confidence: Moderate (50%) on a high impact storm**

➤ **What:**



Downed trees/power lines from 40-60 mph winds, strongest coast



Minor to moderate river/stream flooding. Significant street flooding likely



Minor to moderate coastal flooding, especially along Narragansett Bay



Dangerous conditions for marine vessels Sun evening through Monday

➤ **Where: All of southern New England (CT, MA, and RI)**

➤ **When: Overnight Sunday into Monday**



Contact and Next Briefing Information

December 15, 2023
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Next Briefing:

6 AM Saturday

Disclaimer: The information contained within this briefing is time-sensitive, do not use after 6 AM, Saturday, December 16.



www.weather.gov/boston



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