



National Weather Service Boston / Norton

Decision Support Briefing #1 ***Friday, December 8, 2023*** ***2:45 PM***

Potential for:

- Damaging Winds
- Coastal Flooding
- Flooding Rain
- Hazardous Marine Travel

Late Sunday - Monday



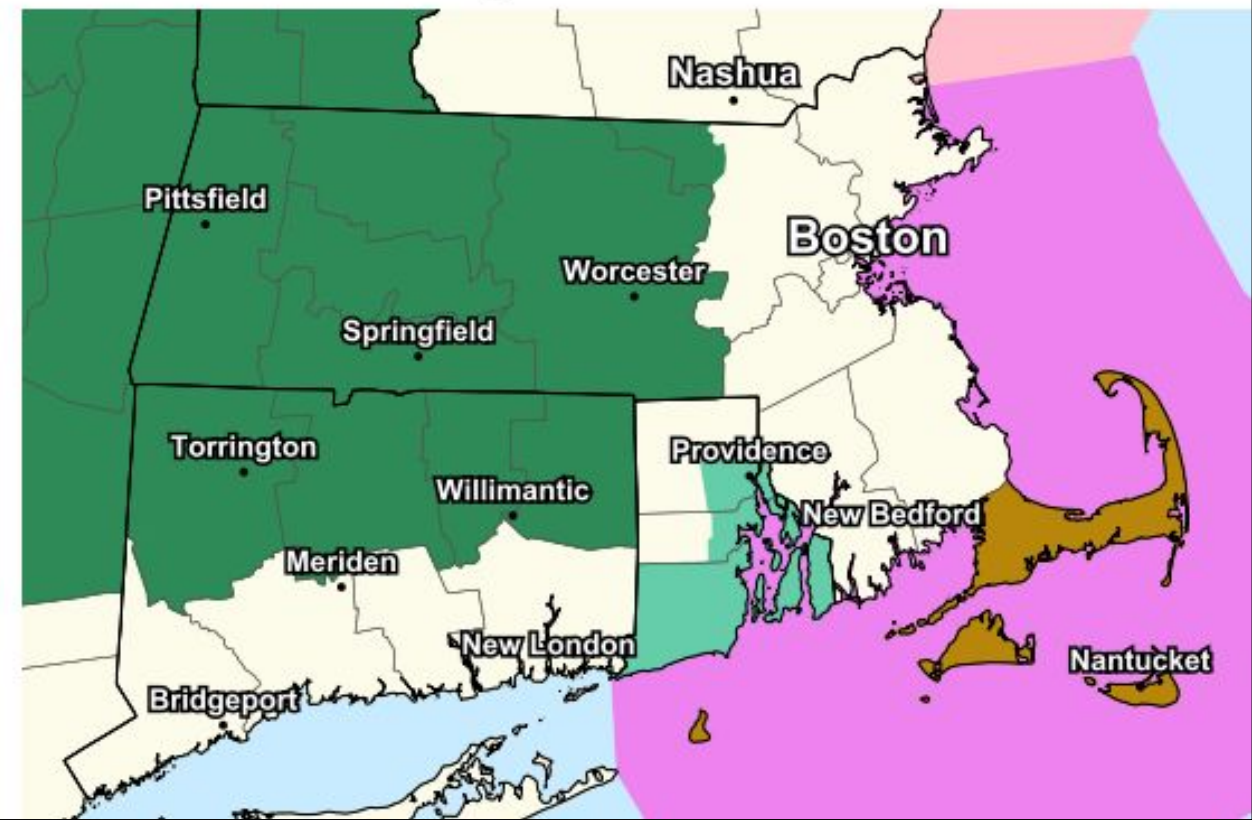
What Has Changed:

- ***Increasing confidence on an impactful storm Sun-Mon***
 - High Wind Watch for Cape Cod and Islands
 - Storm Watch for MA/RI coastal waters
 - Coastal Flood Watch for Narragansett Bay, RI
 - Flood Watch for northern CT and western/central MA



Current Watches, Warnings, and Advisories

- Flood Watch
- High Wind Watch
- Coastal Flood Watch
- Gale Watch
- Storm Watch



Graphic Created
December 8th, 2023
2:46 PM EST







National Oceanic and
Atmospheric Administration
U.S. Department of Commerce



Key Points

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Hazard		Impacts	Location	Timing
Damaging Wind		Downed trees/power lines and power outages	All of southern New England, especially near the coast	Sunday night into Monday morning
Coastal Flooding		Minor to moderate flooding of coastal roads	South Coastal MA/RI	Early Monday morning high tide
Flooding Rain		Minor river and stream flooding	CT and Western MA	Sunday night
Hazardous Winds/Seas		Dangerous conditions for vessels	MA and RI waters	Sunday night into Monday





Summary of Greatest Impacts

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<u>Wind:</u>	All of southern New England, especially coast				
None	Limited	Elevated	Significant		Extreme



<u>Coastal Flooding:</u>		South Coastal MA and RI		
None	Limited	Elevated	Significant	Extreme



<u>Flooding Rain:</u>	CT and western MA				
None	Limited	Elevated	Significant	Extreme	



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Wind Gust Forecast

December 8, 2023
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Maximum Wind Gust Forecast (mph)

	12/10 Sun				12/11 Mon								12/12 Tue				
	12pm	3pm	6pm	9pm	12am	3am	6am	9am	12pm	3pm	6pm	9pm	12am	3am	6am	9am	12pm
Boston	26↑	32↑	35↑	39↑	44↑	49↑	53↑	43↗	43→	39→	36→	32→	30→	26→	23→	21→	20→
Gloucester	22↑	29↑	32↑	36↑	40↑	51↑	59↑	53↑	47↗	40→	37→	36→	35→	31→	29→	26→	22→
Hartford	31↑	38↑	41↑	43↑	43↑	41↑	35→	39↗	40→	37→	31→	26→	23→	21→	17→	16→	17→
Hyannis	24↑	29↑	33↑	38↑	45↑	54↑	62↑	62↑	49↗	40→	37→	37→	36→	33→	29→	25→	23→
Lowell	21↑	26↑	35↑	38↑	39↑	41↑	39↗	33→	32→	31→	31→	29→	26→	24→	20→	18→	20→
Nantucket	23↑	26↑	31↑	36↑	44↑	55↑	63↑	62↑	52↗	44→	41→	40→	39→	36→	32→	28→	25→
New Bedford	30↑	33↑	37↑	43↑	47↑	54↑	59↑	55↗	47↗	38→	35→	32→	30→	26→	24→	22→	21↗
New Haven	21↑	29↑	39↑	40↑	40↑	39↗	31→	30→	29→	28→	30→	29→	26→	23→	18→	17→	18→
Newport	31↑	36↑	37↑	43↑	48↑	54↑	60↑	48↗	45→	39→	33→	31→	30→	26→	23→	21→	21↗
Pittsfield	28↑	35↑	40↑	40↑	41↑	33→	31→	37→	38→	38→	36→	33→	31→	29→	24→	21→	21→
Providence	29↑	32↑	35↑	39↑	44↑	49↑	51↑	43↗	43→	37→	31→	29→	28→	24→	21→	18→	20→
Springfield	30↑	38↑	41↑	43↑	44↑	41↑	35→	39↗	43→	38→	32→	28→	24→	22→	18→	17→	18→
Worcester	30↑	36↑	41↑	45↑	47↑	49↑	44↗	40→	44→	38→	36→	32→	29→	26→	23→	21→	20→

0 5 10 15 20 25 30 35 40 45 50 60 70 80 100 120 140

Maximum Wind Gust Forecast (mph)

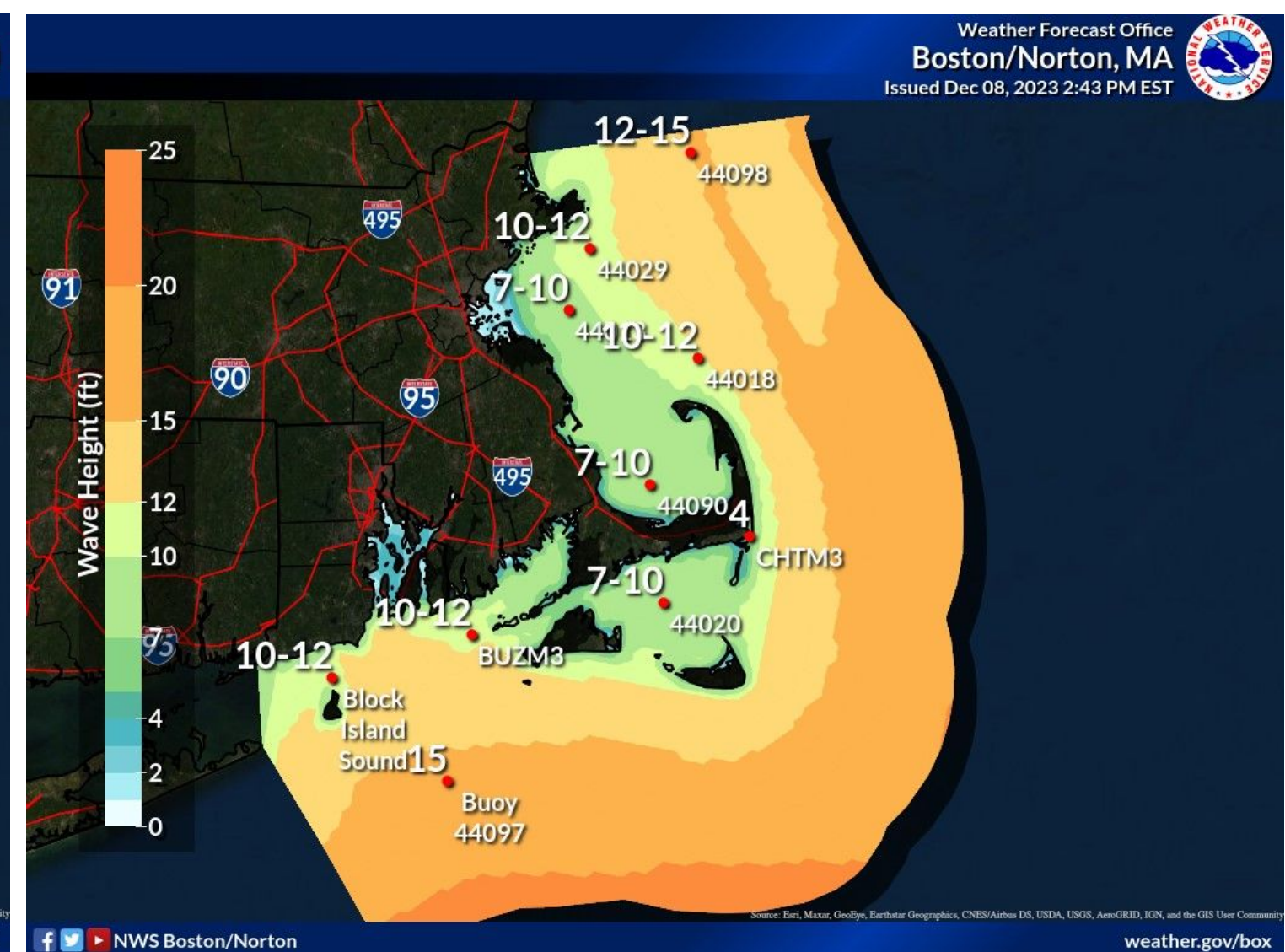
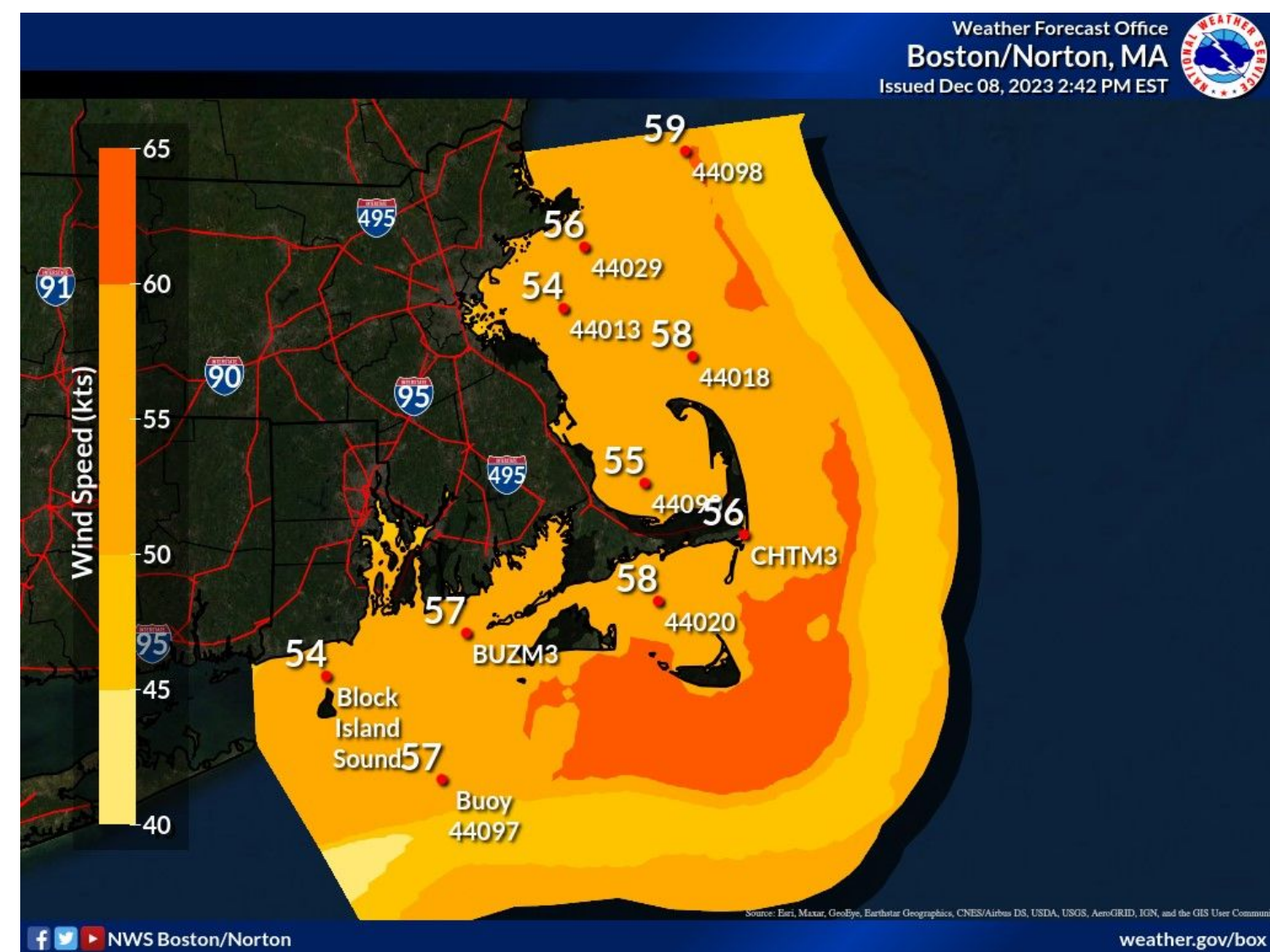
- Peak winds late Sunday night into early Monday morning





Coastal Waters Winds and Seas

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Winds peak Sunday night into Monday morning

Highest seas Monday



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Expected Weather

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Weather Forecast

	12/10 Sun				12/11 Mon								12/12 Tue		
	12pm	3pm	6pm	9pm	12am	3am	6am	9am	12pm	3pm	6pm	9pm	12am	3am	6am
Boston	☔	☔	☔	☔	☔	☔	☔	☔	☔	☔					
Gloucester	☔	☔	☔	☔	☔	☔	☔	☔	☔	☔					
Hartford	☔	☔	☔	☔	☔	☔	☔	☔	☔	☔					
Hyannis	☔	☔	☔	☔	☔	☔	☔	☔	☔	☔					
Lowell	☔	☔	☔	☔	☔	☔	☔	☔	☔	☔					
Nantucket	☔	☔	☔	☔	☔	☔	☔	☔	☔	☔					
New Bedford	☔	☔	☔	☔	☔	☔	☔	☔	☔	☔					
New Haven	☔	☔	☔	☔	☔	☔	☔	☔	☔						
Newport	☔	☔	☔	☔	☔	☔	☔	☔	☔	☔					
Pittsfield	☔	☔	☔	☔	☔	☔	☔	☔	☔	☔	☔	☔	☔	☔	
Providence	☔	☔	☔	☔	☔	☔	☔	☔	☔	☔					
Springfield	☔	☔	☔	☔	☔	☔	☔	☔	☔	☔					
Worcester	☔	☔	☔	☔	☔	☔	☔	☔	☔	☔					

Created: 2 pm EST Fri 12/8/2023. Shows most impactful weather for the period beginning at the time shown. Weather symbols display where Probability of Precipitation \geq 0%.

- Rain + **- Wintry Mix +** **- Snow +**

- Heaviest rain late Sunday night into early Monday morning
- Rain may change to snow Monday in the higher elevations in and near the Berkshires

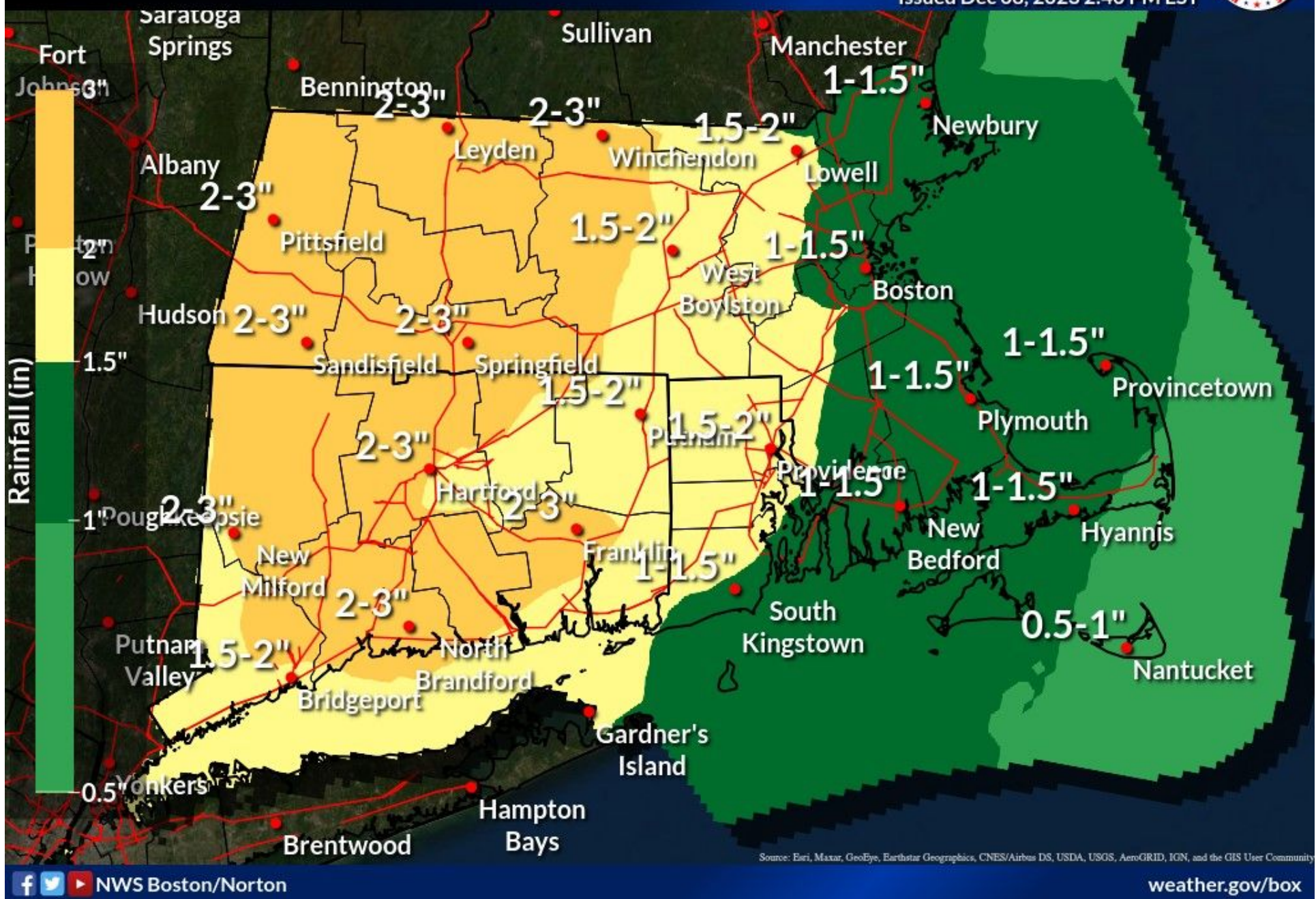




Rainfall Forecast

December 8, 2023
2:45 PM

Weather Forecast Office
Boston/Norton, MA
Issued Dec 08, 2023 2:40 PM EST



- Heaviest rain Sunday night into early Monday morning
- Minor street flooding for the Monday morning commute



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Snowfall Forecast

December 8, 2023
2:45 PM

Weather Forecast Office
Boston/Norton, MA
Issued Dec 08, 2023 2:40 PM EST



- Rain should change to snow Monday in and near the Berkshires
- Accumulations should be limited to the higher elevations

NWS Boston/Norton

weather.gov/box

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



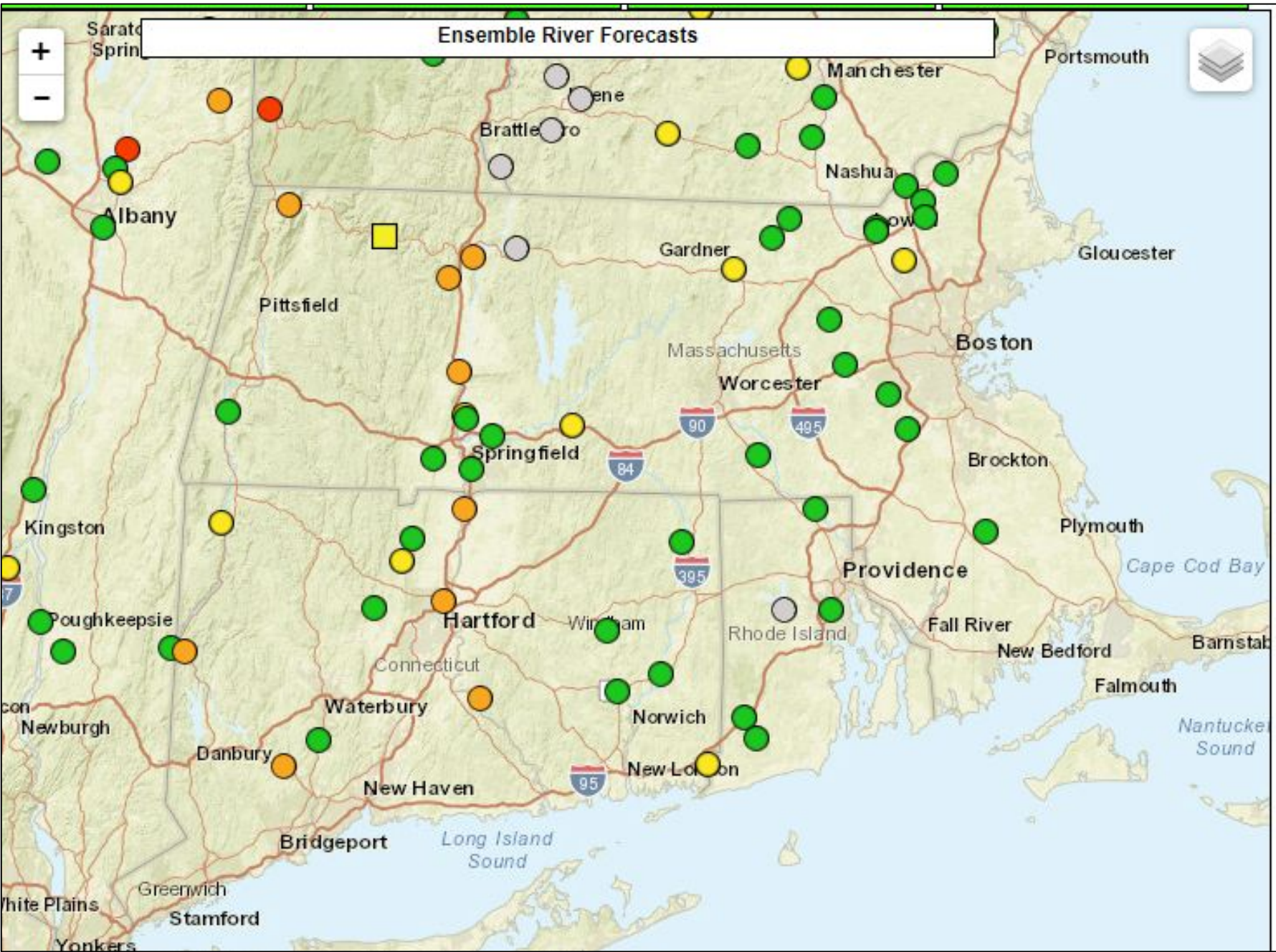
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River Flood Outlook

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- **Minor river flooding is possible Monday along and near the mainstem Connecticut River**

(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		

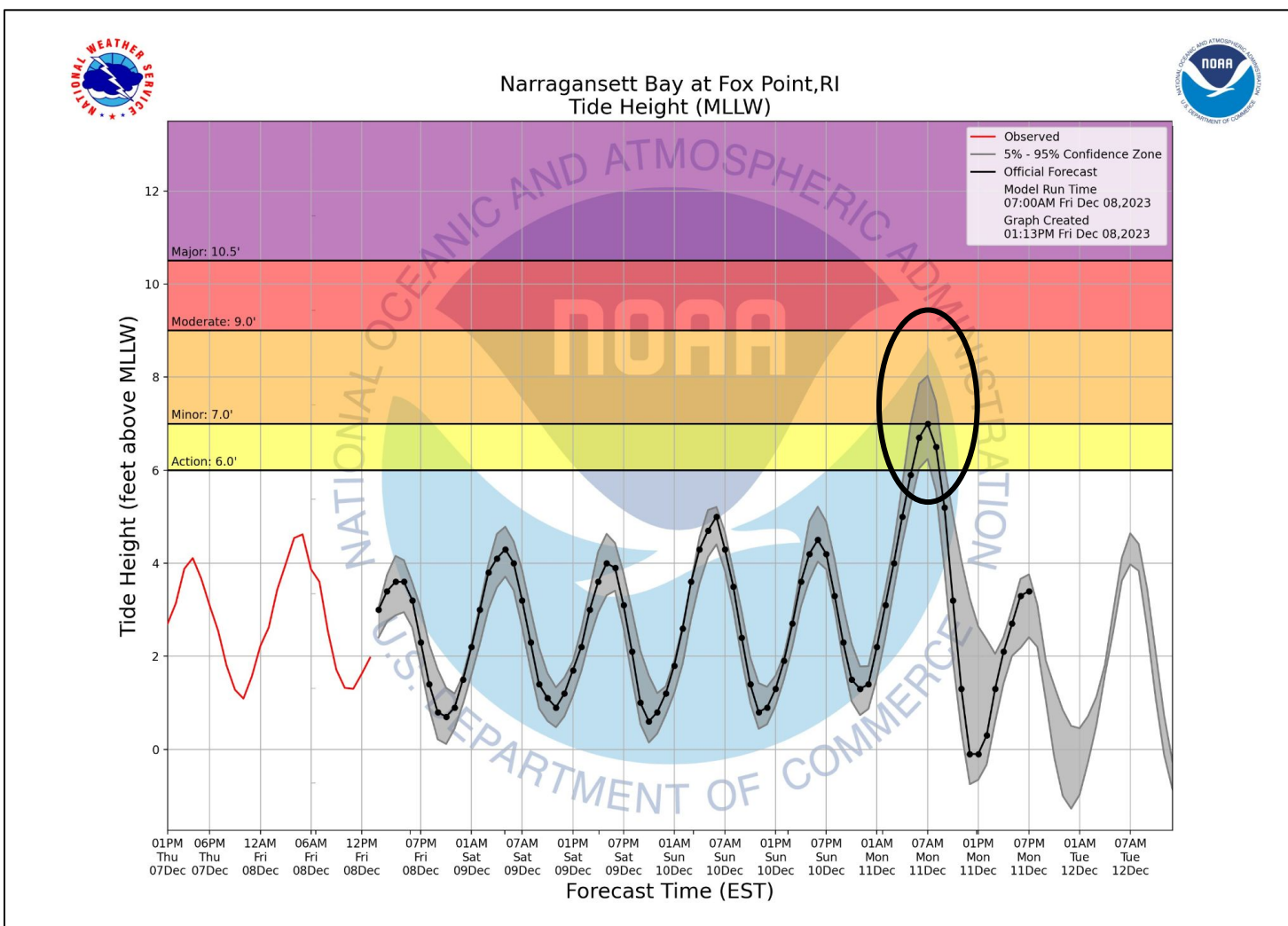




Coastal Flooding

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Total Water Level Forecast: Providence



- Minor flooding most likely early Monday morning along south coastal MA/RI.
- Close to Moderate flooding on the upper end of Narragansett Bay including Providence.



Minor

Moderate

Minor: flooding less than one foot deep

Moderate: flooding 1 to 2 feet deep



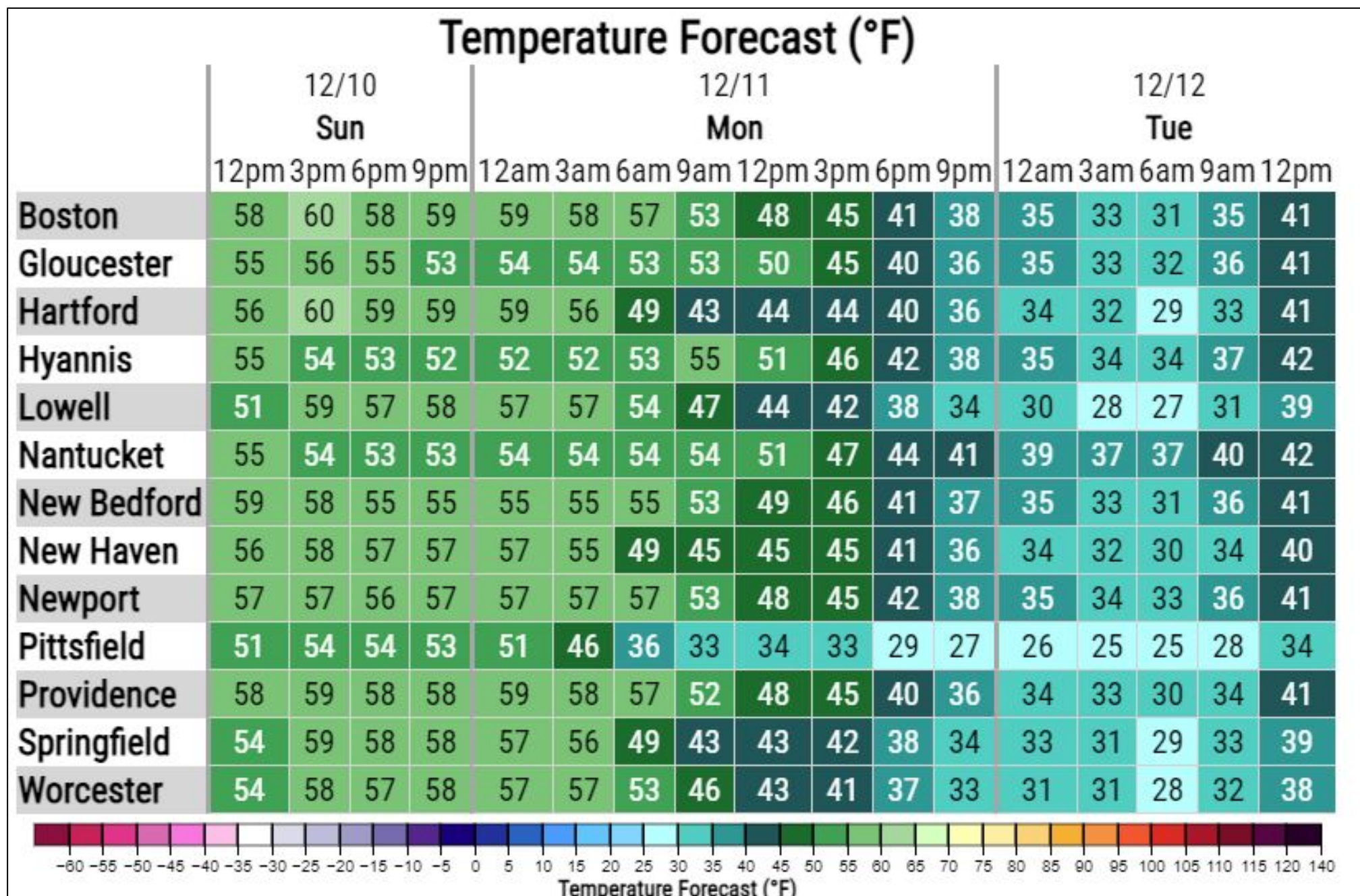
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Temperature Forecast

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Threat Event Summary

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➤ **Confidence: Moderate (60%) on a high impact storm**

➤ **What:**



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



Minor to moderate coastal flooding along south coastal MA/RI



Minor river/stream flooding in CT and western MA



Dangerous conditions for marine vessels Sun night into Mon

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

➤ **When: Sunday night into Monday**



Contact and Next Briefing Information

December 8, 2023
2:45 PM

Next Briefing:

When: 6 AM Saturday, December 9

Method: Email

Disclaimer: The information contained within this briefing is time-sensitive, do not use after 5 am, Saturday, December 9



www.weather.gov/boston



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