



National Weather Service Boston / Norton

Decision Support Briefing Saturday, December 9, 2023 4:00 PM

Potential for:

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

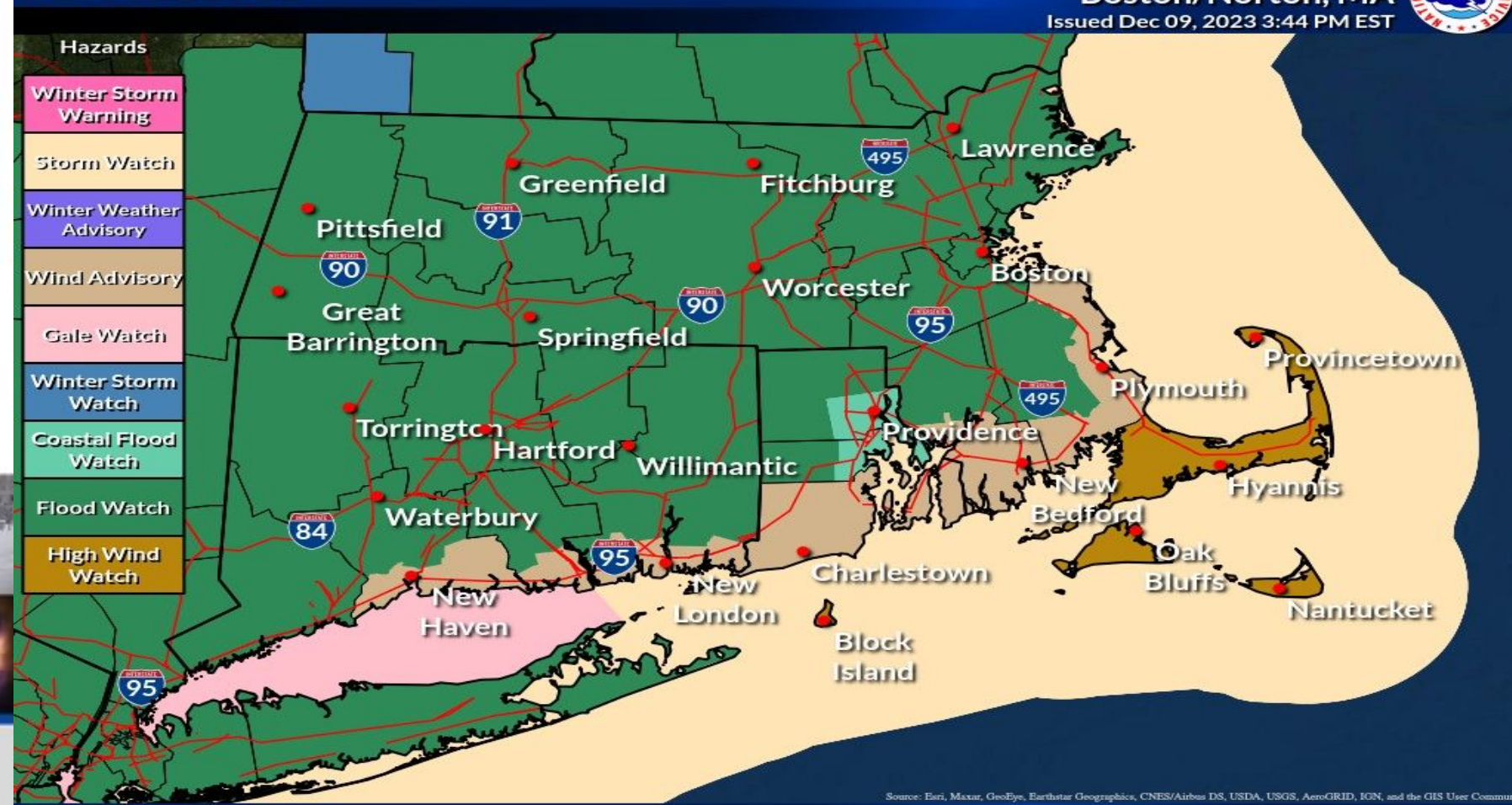
Late Sunday - Monday



What Has Changed:

- Flood Watch expanded to eastern Massachusetts (excluding Cape Cod and the islands)
- Wind Advisory issued for the south coast of MA and Plymouth County






All Hazards





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 Cape Cod & possibly Plymouth county	Sunday night into Monday morning
				
Coastal Flooding		Minor to moderate flooding of coastal roads	South Coastal MA/RI, including Narragansett & Buzzards Bays	Monday morning high tide
				
Flooding Rain		Minor river/stream and street/highway flooding	CT, RI and all of MA, excluding Cape Cod & Islands.	Sunday night & Monday morning
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	



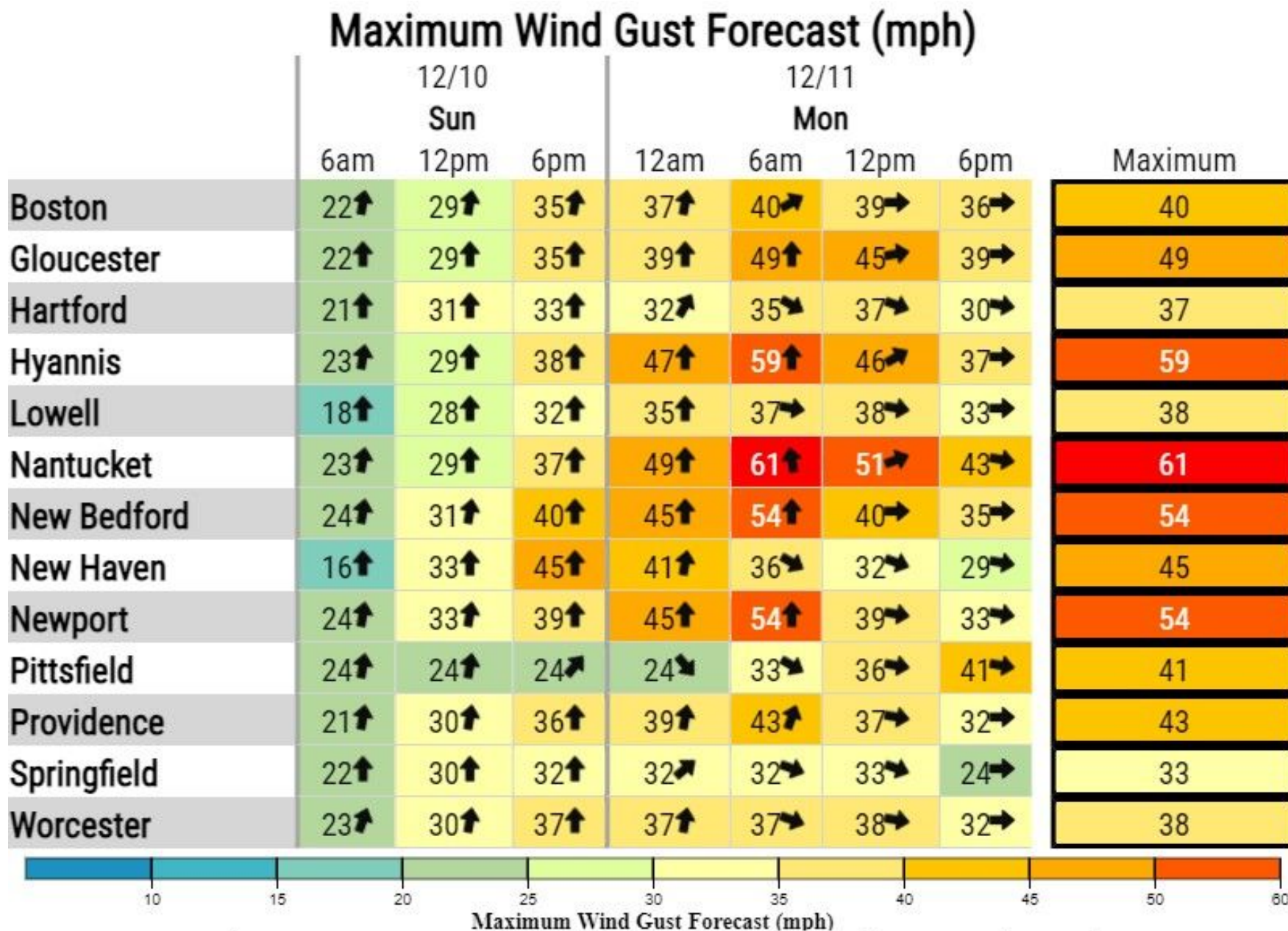
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Wind Gust Forecast

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Created: 3 pm EST Sat 12/9/2023 | Values are maximums over the period beginning at the time shown.

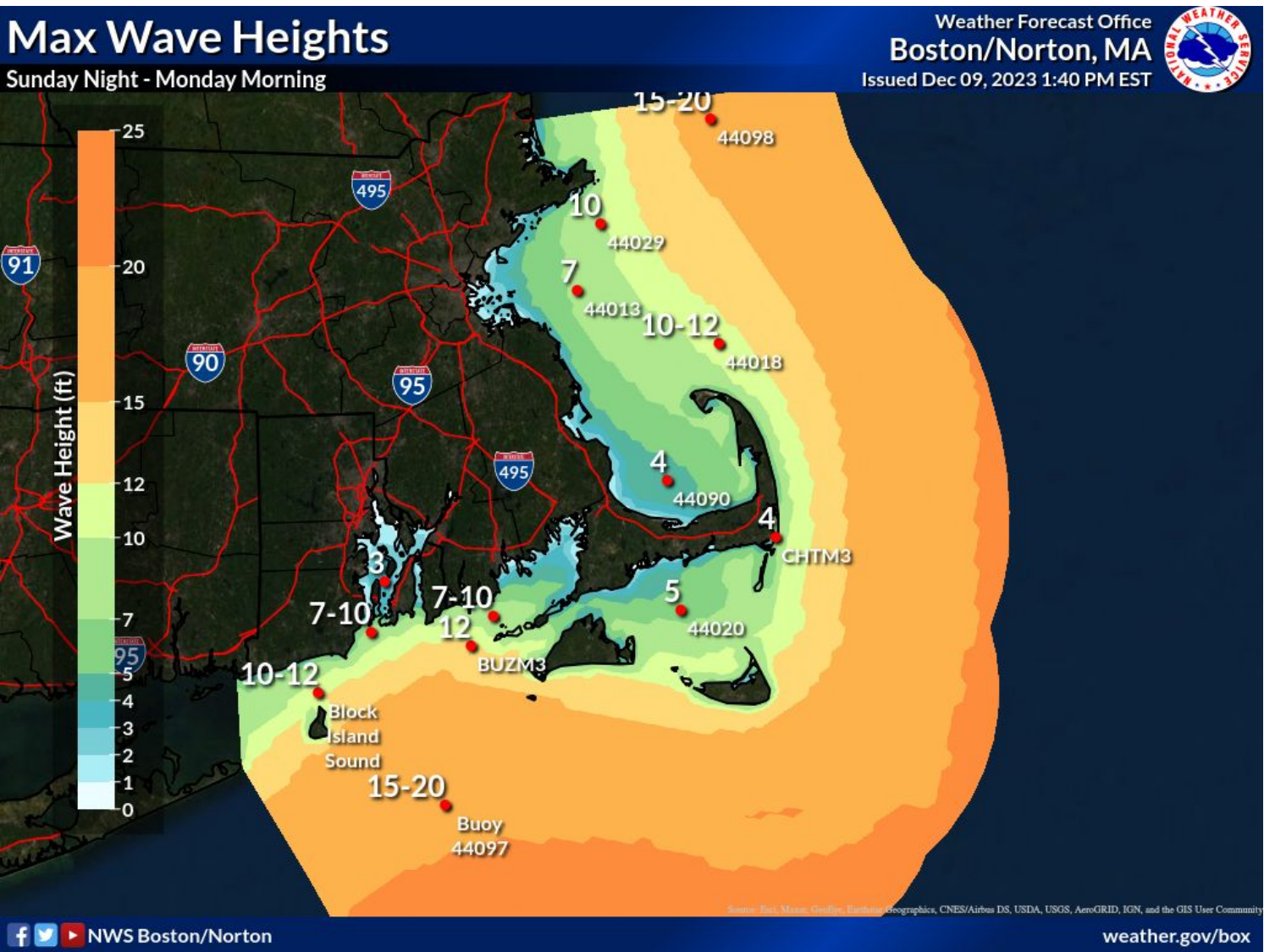
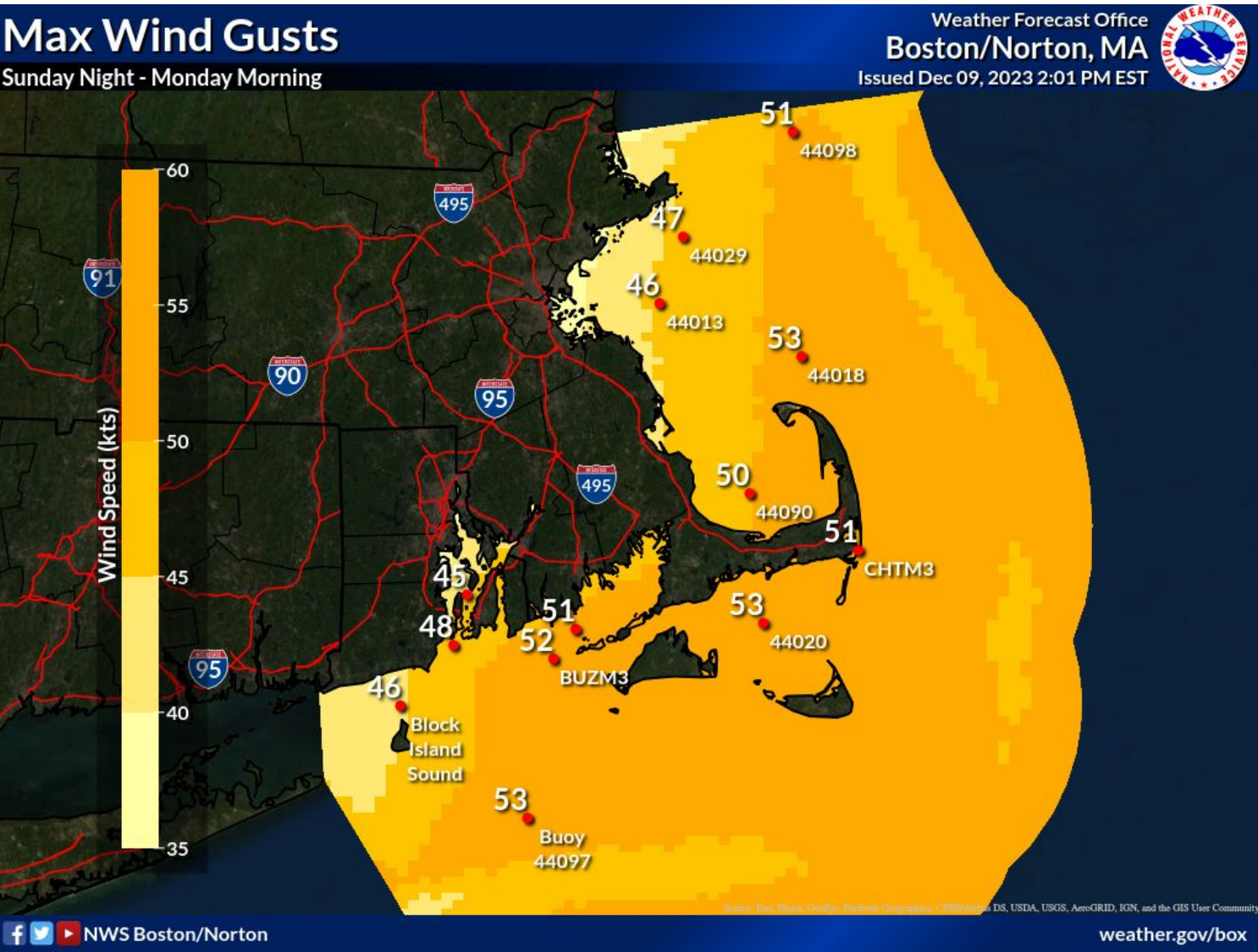
- **Peak winds late Sunday night into Monday morning**





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		
	12pm	6pm	12am	6am	12pm
Boston					
Gloucester					
Hartford					
Hyannis					
Lowell					
Nantucket					
New Bedford					
New Haven					
Newport					
Pittsfield					
Providence					
Springfield					
Worcester					

Created: 3 pm EST Sat 12/9/2023. Shows most impactful weather for the period beginning at the time shown. Weather symbols display where Probability of Precipitation \geq 0%.

- Rain + **- Wintry Mix +**

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- **Heaviest rain late Sunday night into Monday morning**
- **Rain likely changes to wet snow Monday in the higher elevations in and near the Berkshires**





Rainfall Forecast

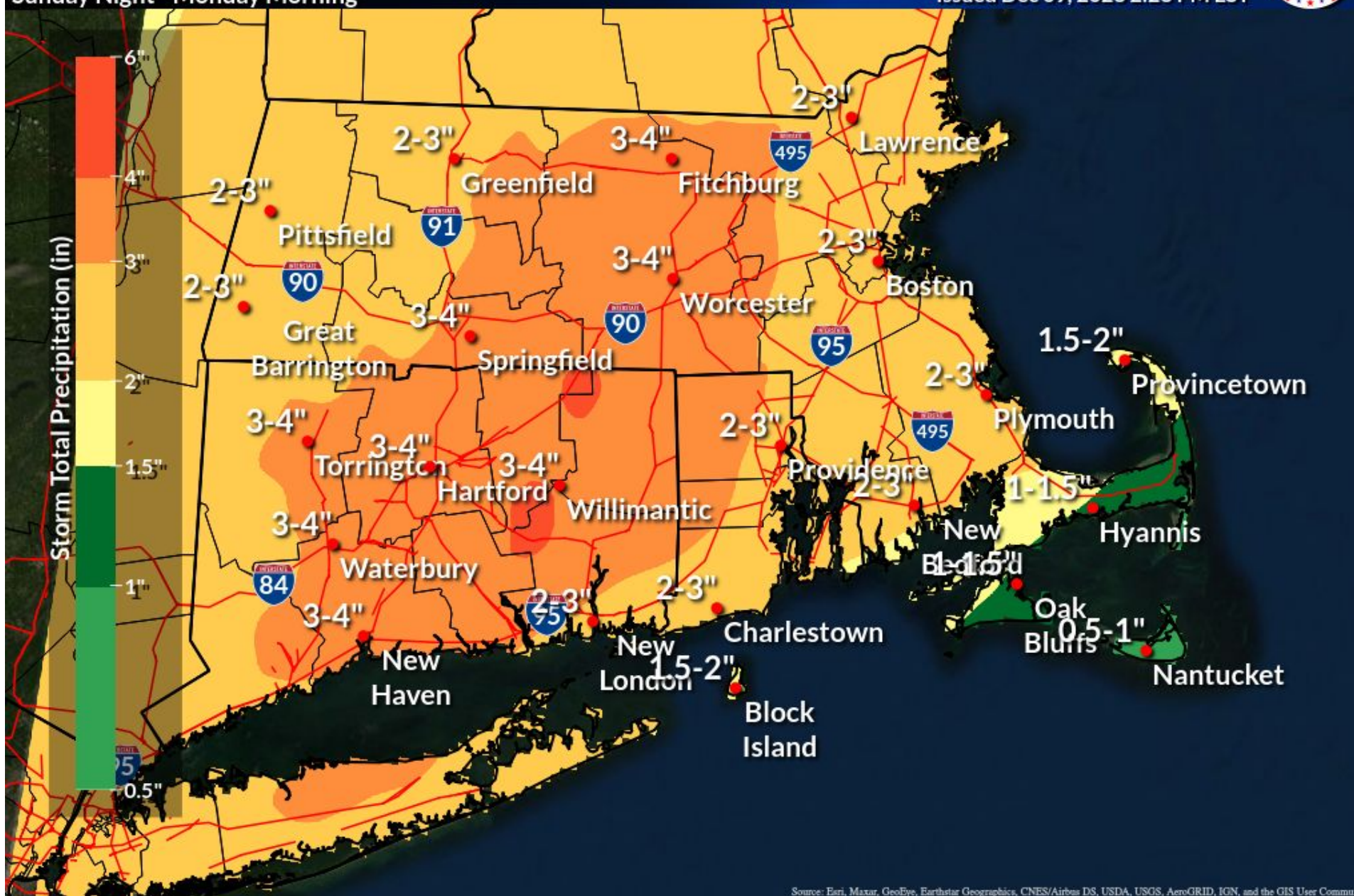
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Rainfall Totals

Sunday Night - Monday Morning

Weather Forecast Office
Boston/Norton, MA

Issued Dec 09, 2023 2:23 PM EST



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

NWS Boston/Norton

weather.gov/box

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



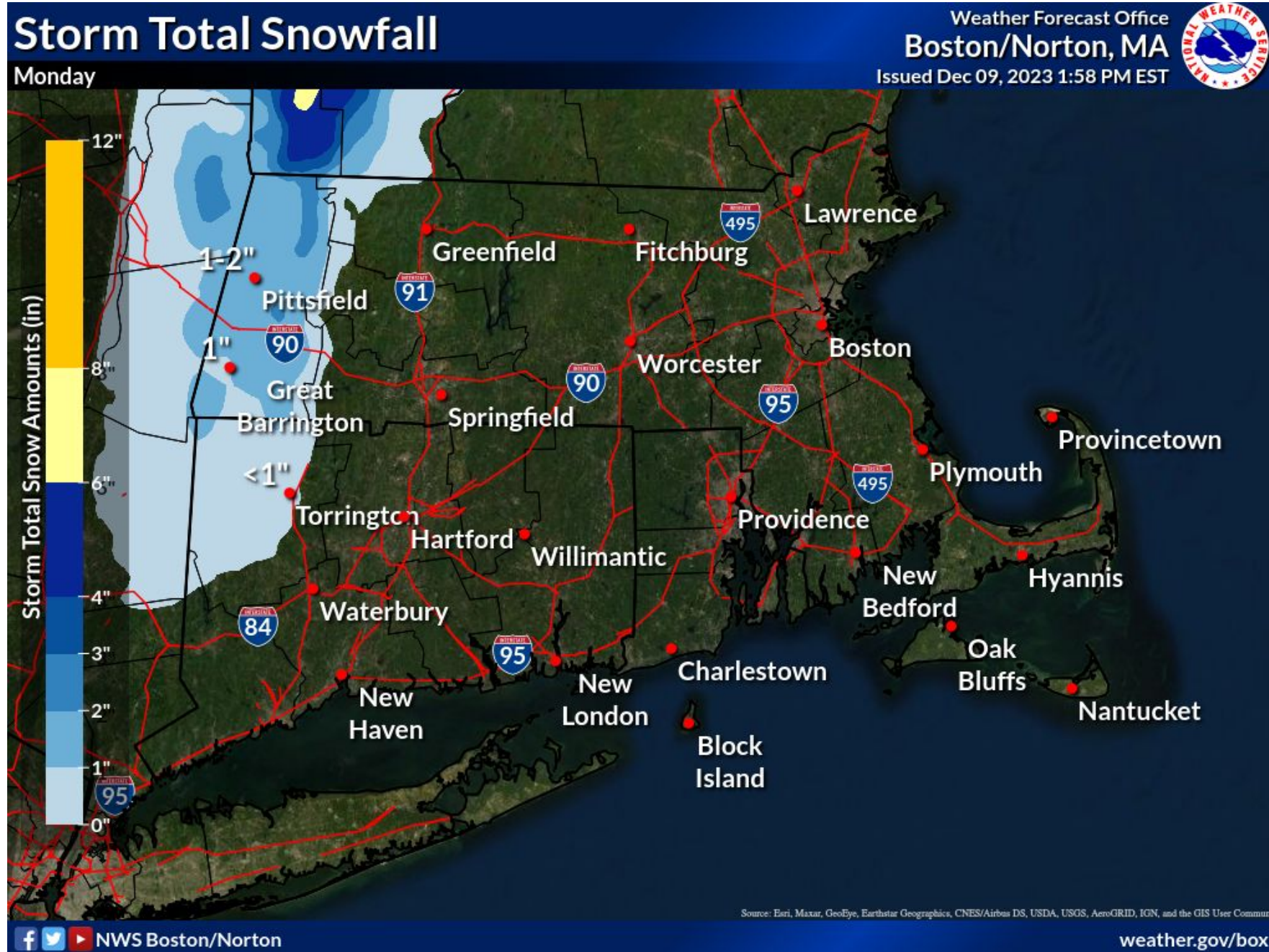
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Snowfall Forecast

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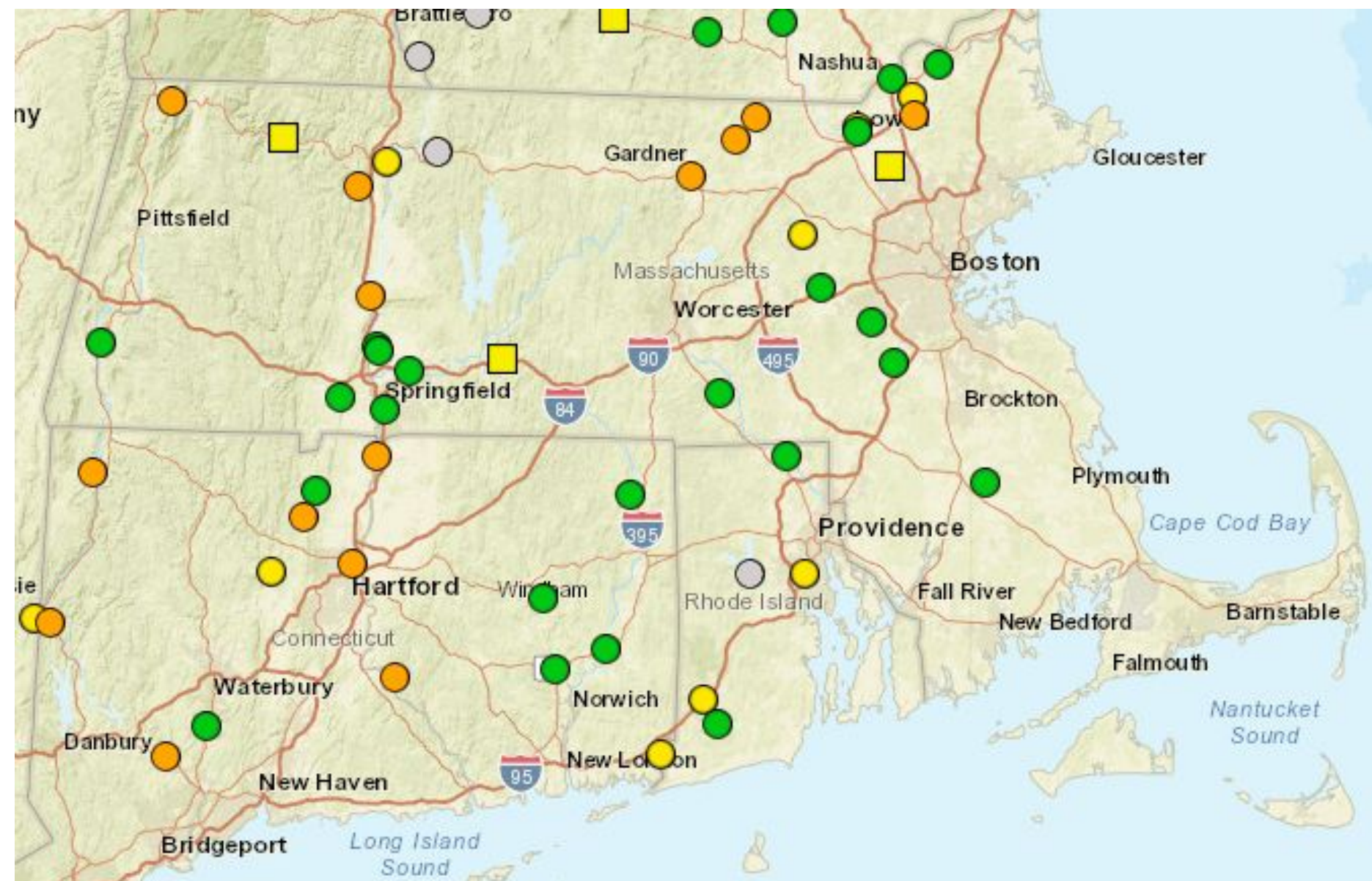
- Rain likely changes to wet snow Monday in and near the Berkshires
- Accumulations should be limited to the higher elevations





River Flood Outlook

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- Minor river flooding is likely (greater than 60%) Monday along and near the mainstem Connecticut River. There is a lower probability a few spots could experience moderate flooding

(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		

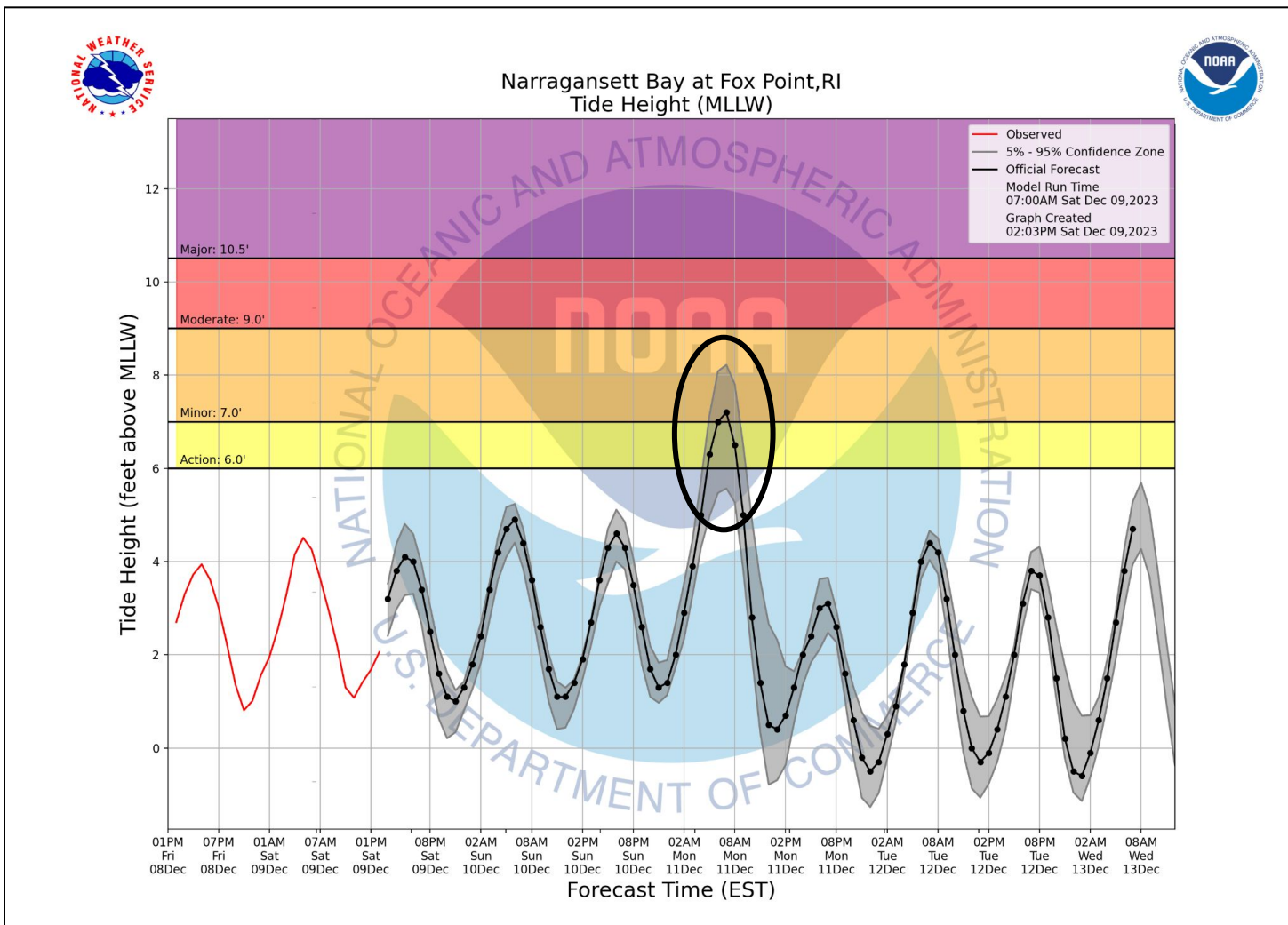




Coastal Flooding

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Total Water Level Forecast: Providence



Minor: flooding less than one foot deep

Moderate: flooding 1 to 2 feet deep

- 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



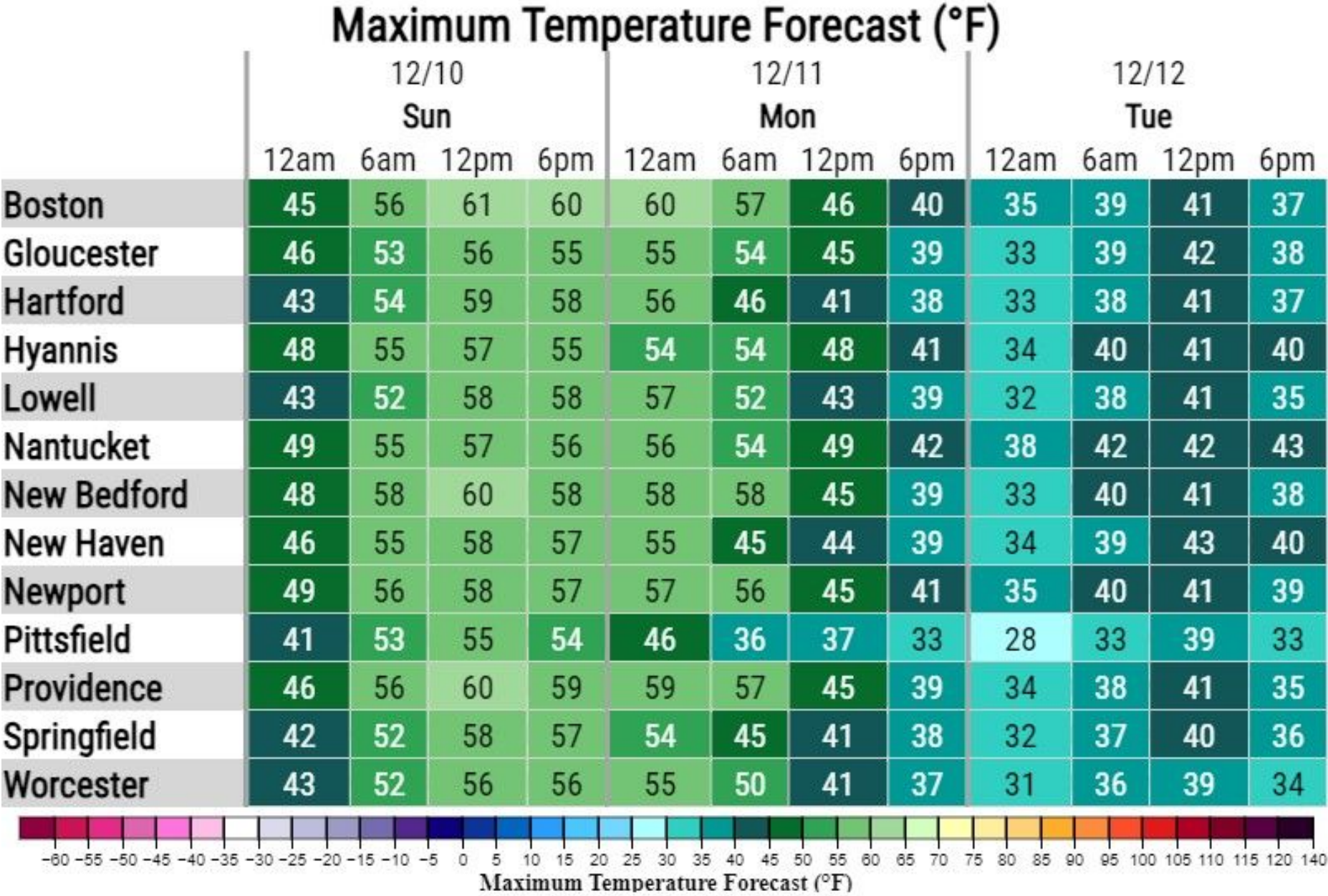
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Temperature Forecast

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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 river/stream flooding in CT and western MA



Minor to moderate coastal flooding along south coastal MA/RI



Dangerous conditions for marine vessels Sun night into Mon

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

➤ **When: Sunday night into Monday**





Next Briefing:

When: 6 AM Sunday, December 10

Method: Email

Disclaimer: The information contained within this briefing is time-sensitive, do not use after 5 am, Sunday, December 10



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Boston / Norton, MA**