



Weather Briefing

For Southern New England

January 8, 2024

3:58 PM

Decision Support Briefing #2

→ As of 4 PM Monday, January 8th 2024



Important Updates

- Upgraded to High Wind Warning along immediate coast
- Issued a High Wind Watch for eastern CT
- Issued a Wind Advisory for central MA into Hartford county
- Issued a Winter Weather Advisory for the Berkshires
- Issued a Coastal Flood Watch for the south coast and Narragansett Bay

Hazards

- High Wind Warning
- Storm Warning
- Winter Weather Advisory
- Small Craft Advisory
- Wind Advisory
- Flood Watch
- High Wind Watch
- Coastal Flood Watch
- Storm Watch







Graphic Created January 8th, 2024 2:30 PM CST



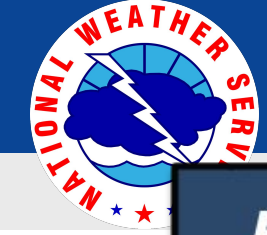


Main Points

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Hazard	Impacts	Location	Timing
Damaging Wind 	Potential for downed trees/power lines & power outages Hazardous travel	I-95 corridor to the coastline (including the Cape & Islands)	Tuesday Night into Wednesday AM May impact Wednesday AM commute
Flooding/Rainfall 	Potential for significant street flood & river/stream flooding	All of southern New England except for Cape Cod & the Islands	Tuesday Night into Wednesday AM River floods may linger until later into the week
Marine 	Dangerous sea conditions for vessels	All waters	Tuesday Night into Wednesday AM
Coastal Flooding 	Minor to moderate flooding on coastal roads	Both south & eastern coastal waters	Wednesday AM High Tide





Active Headlines

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Hazards

- High Wind Warning
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- Flood Watch
- High Wind Watch
- Coastal Flood Watch
- Storm Watch



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Marine / Coastal Hazards

- Storm Warning
- Small Craft Advisory
- Coastal Flood Watch
- Storm Watch



Graphic Created
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Wind Related Hazards

- High Wind Warning
- Wind Advisory
- High Wind Watch



Graphic Created
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Flooding Hazards

- Flood Watch



Graphic Created
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National
Weather Service
U.S. Department of
Commerce

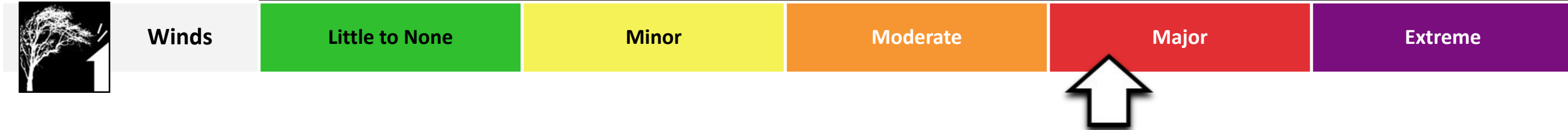
Service
in, MA



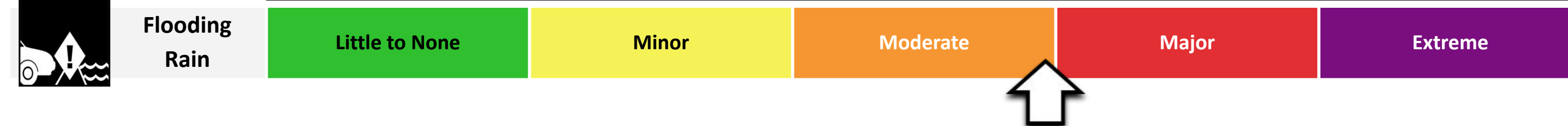
Summary of Greatest Impacts

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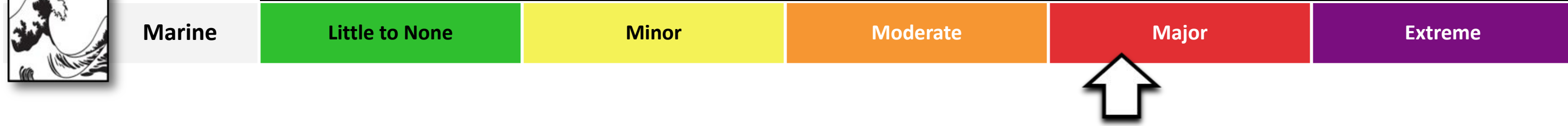
I-95 corridor to the coastline



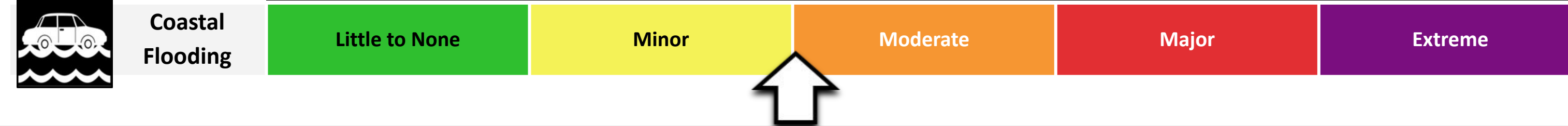
All of southern New England except for Cape Cod & the Islands



All waters



Both coastlines





Expected Snowfall Forecast

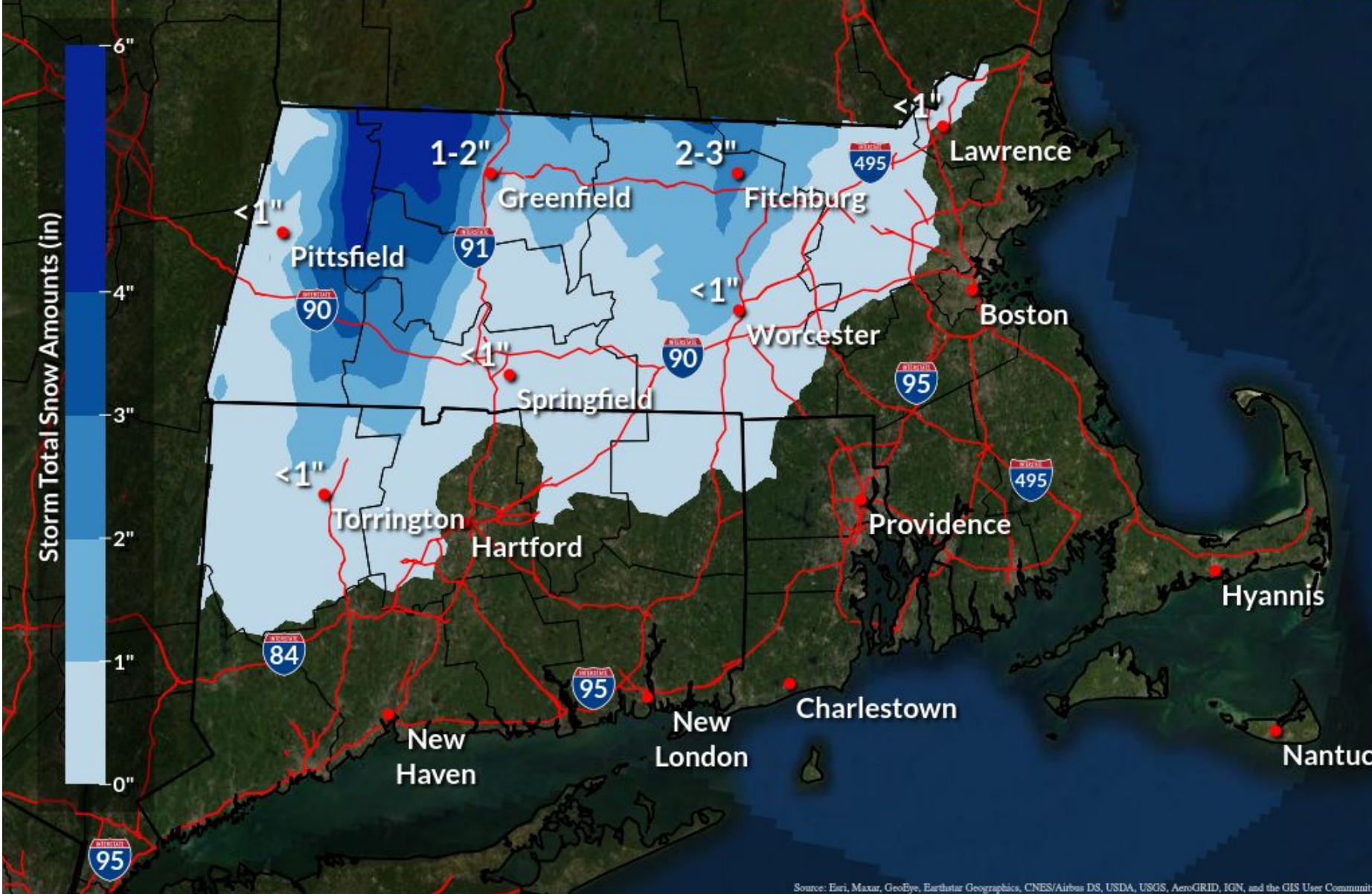
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Expected Snowfall - Official NWS Forecast

Weather Forecast Office
Boston/Norton, MA
Issued Jan 08, 2024 3:24 PM EST



Valid Tuesday through 7 AM Thursday



- A burst of accumulating snow over the higher elevations late Tuesday into Tuesday evening
- Snow changing to all rain by midnight

NWS Boston/Norton

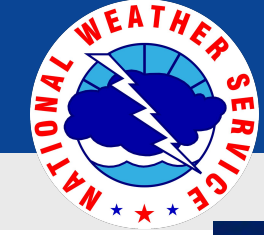
National Oceanic and Atmospheric Administration

U.S. Department of Commerce

[weather.gov/box](https://www.weather.gov/box)

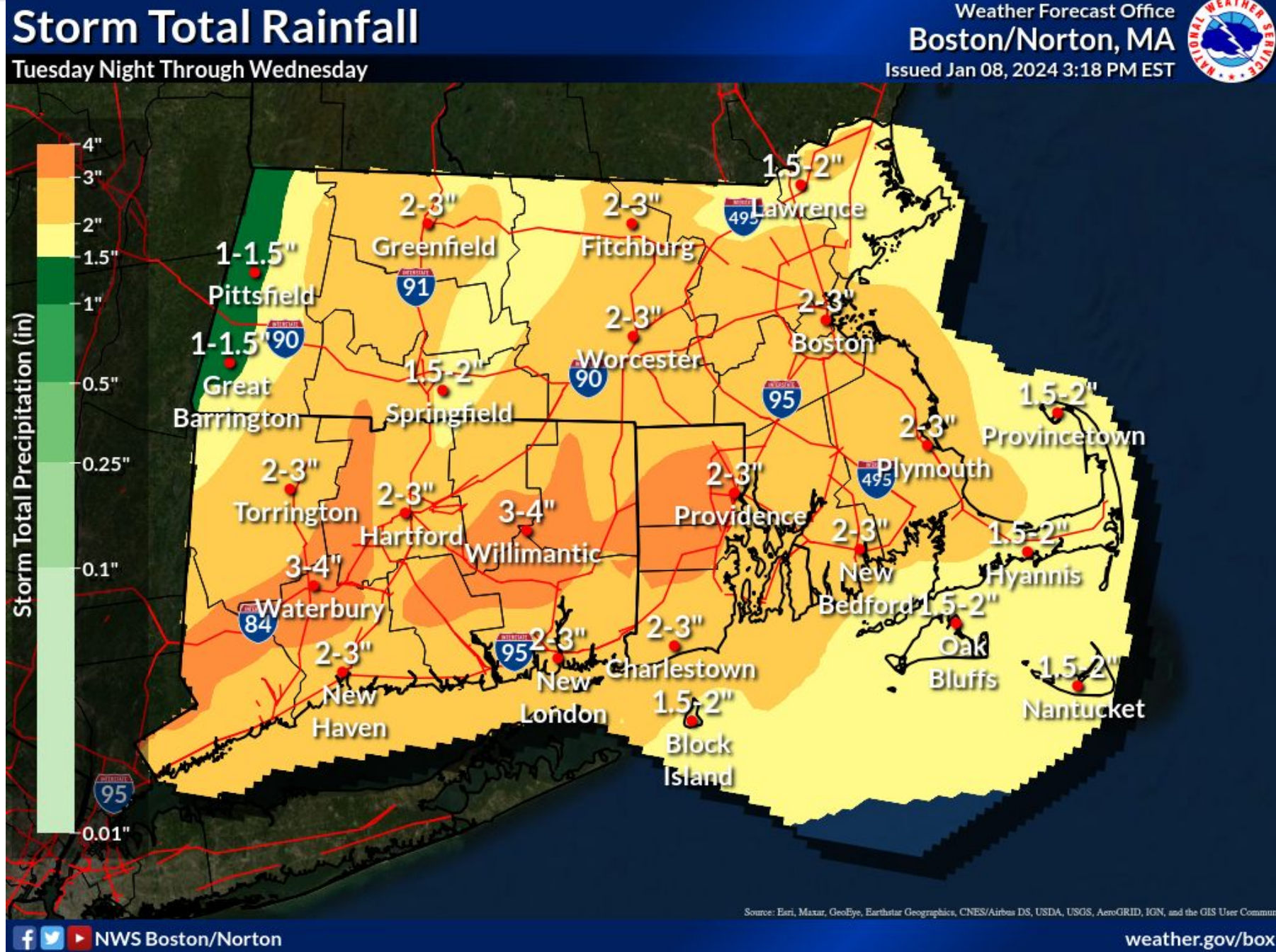


National Weather Service
Boston / Norton, MA



Expected Rainfall Forecast

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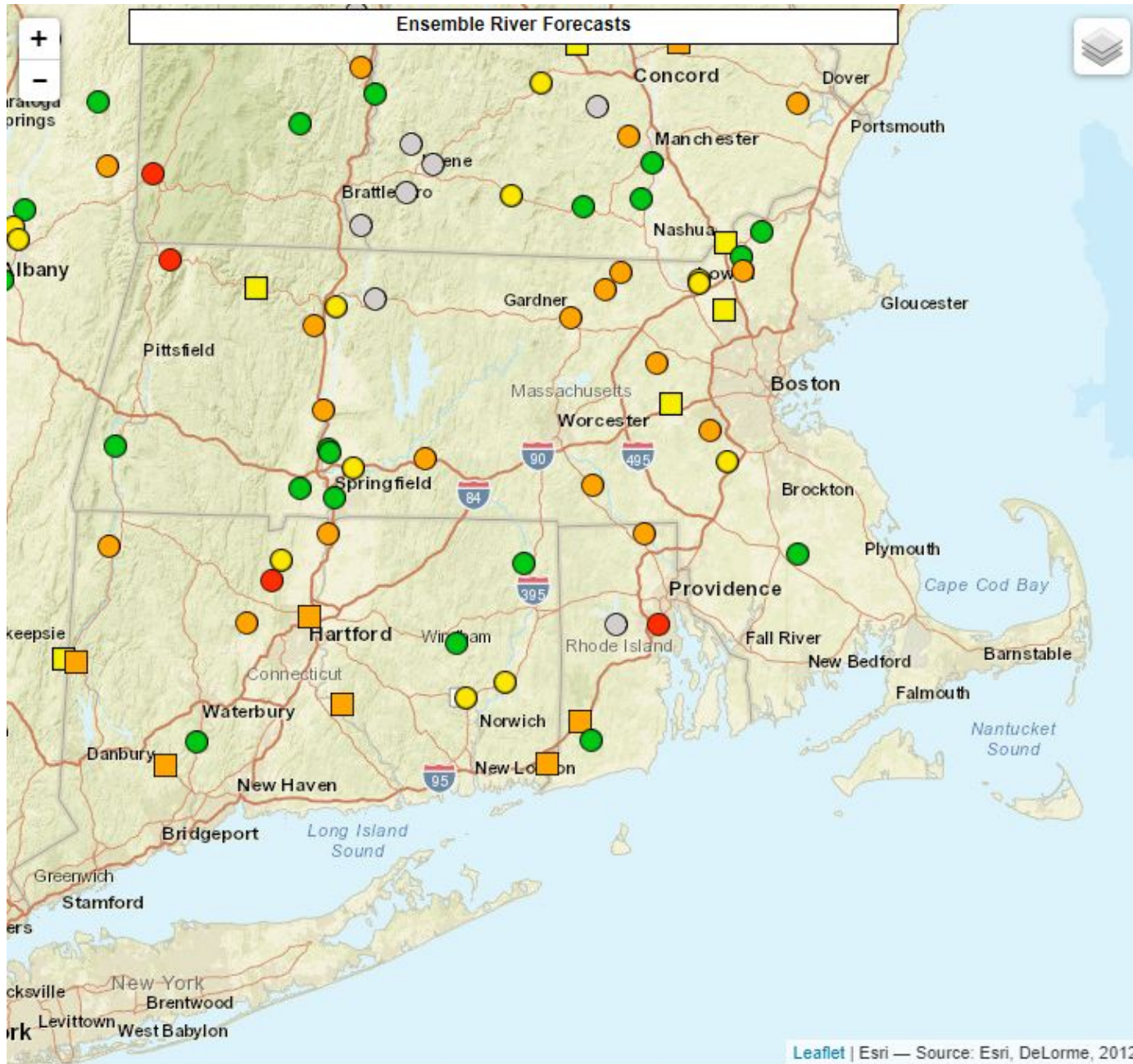
- Rain will fall over an 18 hour period - beginning late Tuesday afternoon, ending mid Wednesday morning
- Heaviest during the overnight hours
- Snow/Ice clogged drainage will exacerbate roadway flooding





River Flood Outlook

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Initial concerns for:
Blackstone River, Pawtuxet River, Wood River, Farmington River, Housatonic River

Quicker responding rivers reaching flood stage Wednesday. Slower ones possibly Thursday

Uncertainty until rainfall and snowmelt amounts are known

Circles = 30% chance of exceeding level
Squares = 70% chance of exceeding level

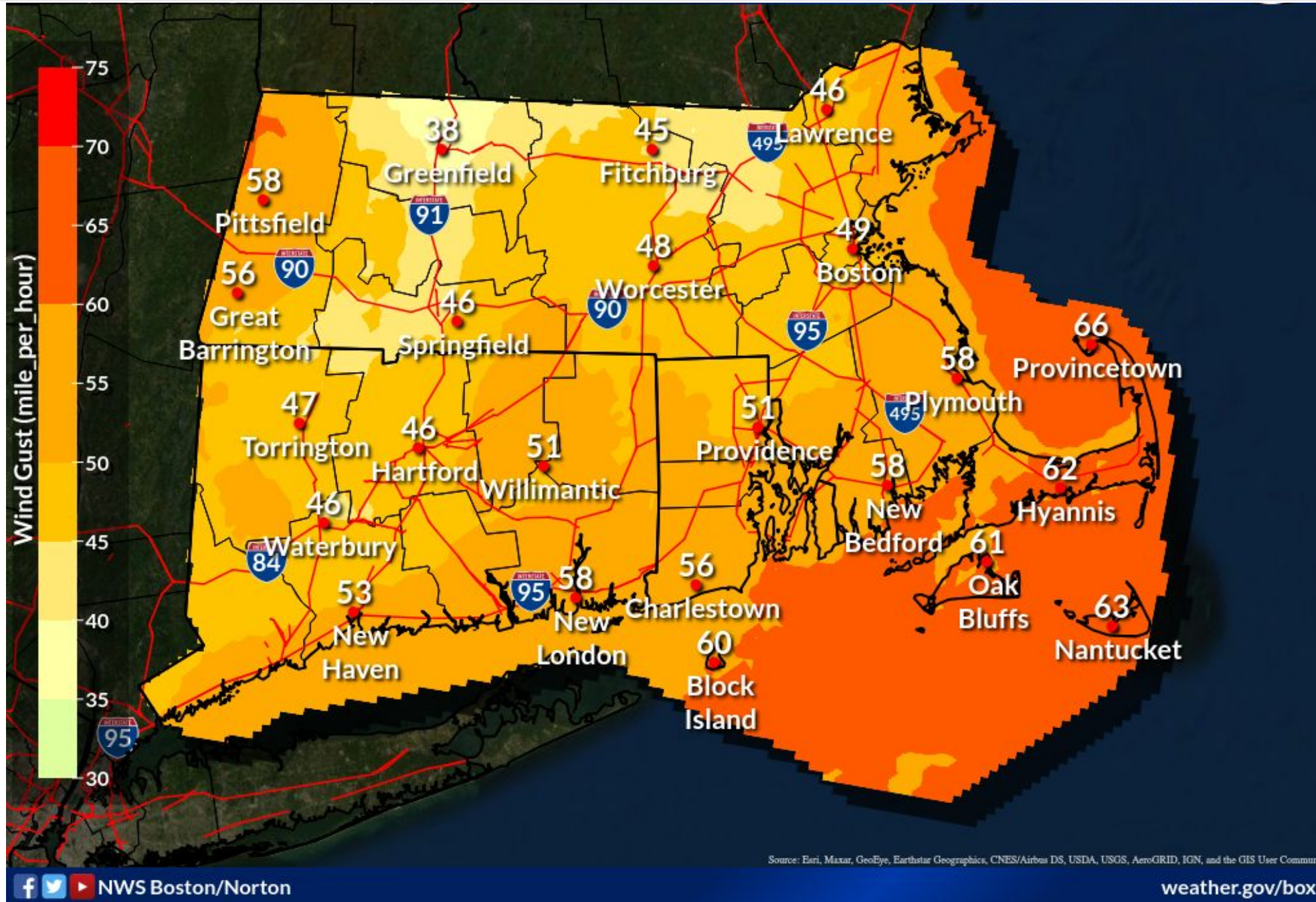
Chance of Exceedance		
30%	Level	70%
	Action	
	Minor Flood	
	Moderate Flood	
	Major Flood	
	= less than 30% chance of reaching Action level	
	= no critical levels defined for this point	





Maximum Wind Gust Forecast

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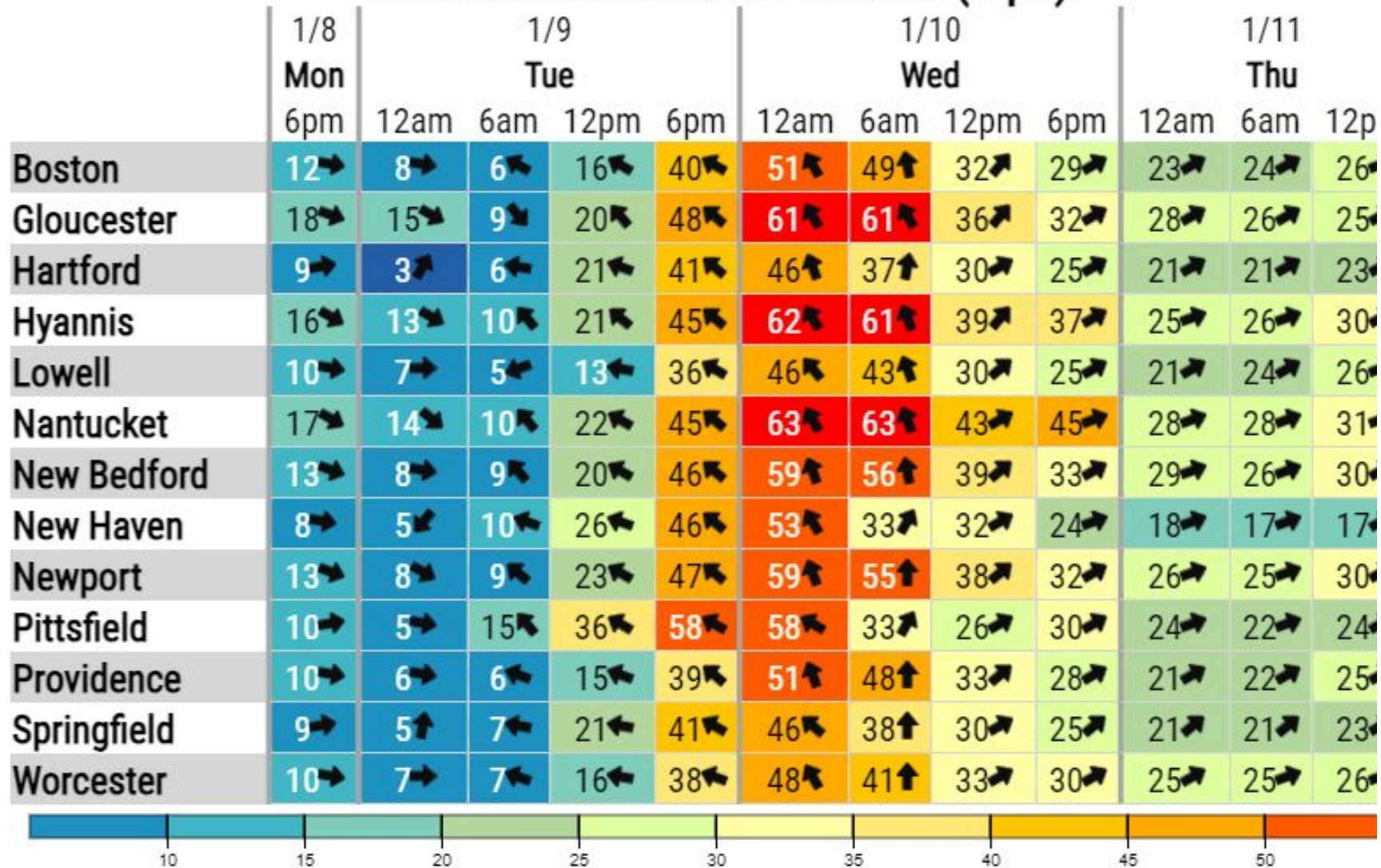




Wind Gust Forecast

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Maximum Wind Gust Forecast (mph)



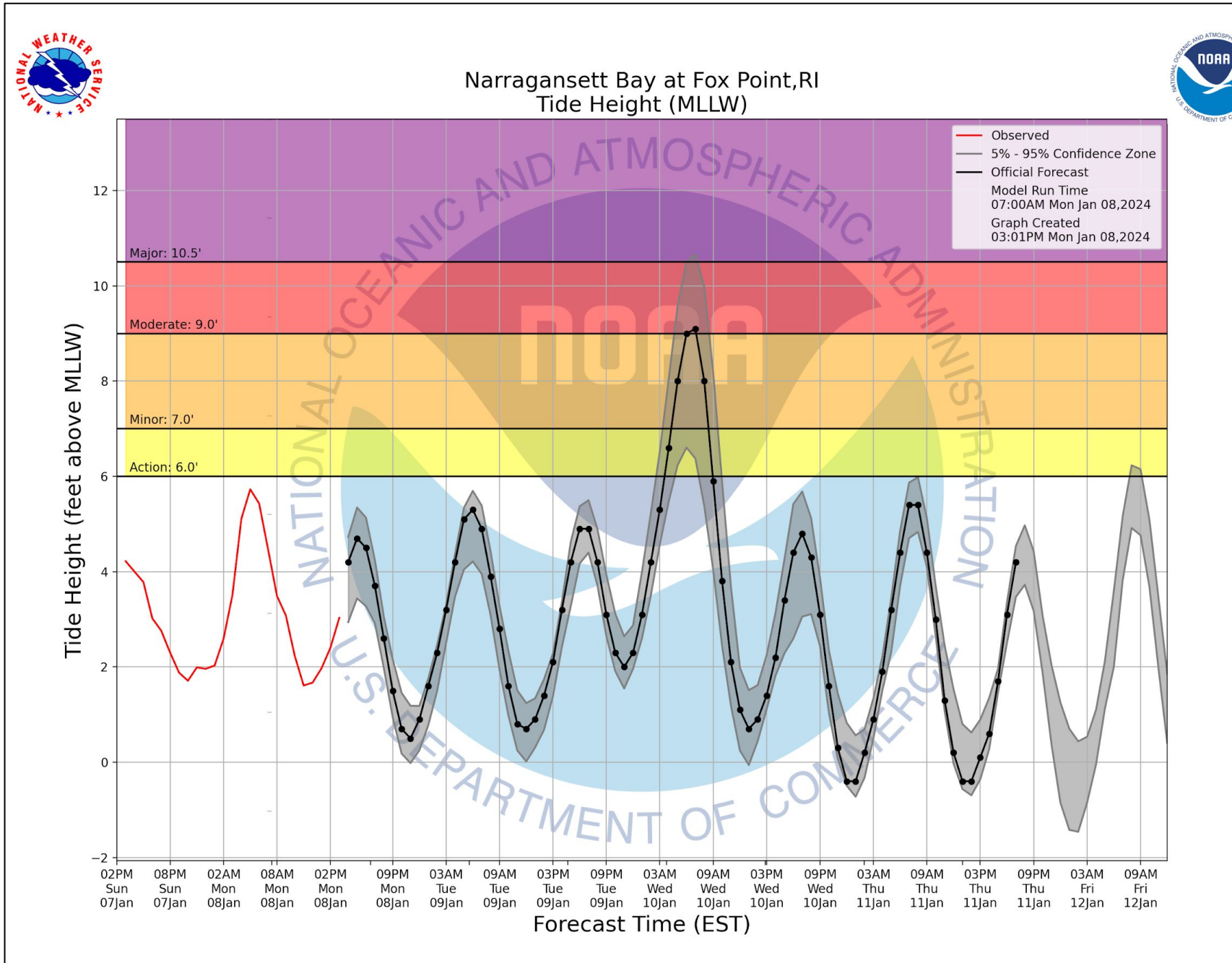
Created: 3 pm EST Mon 1/8/2024 | Values are maximums over the period beginning at the time shown.

- Strongest wind gusts generally 9 pm Tuesday to 9 am Wednesday
 - Will come from a southeasterly direction
- Breezy (gusts 25-35 mph) southwest winds through the rest of Wednesday



Coastal Flooding

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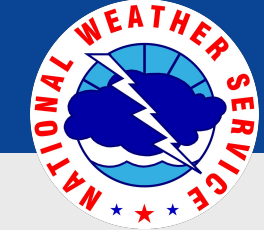
Minor flooding during Wednesday morning (6 am-8 am) high tide

- Especially south coastal MA/RI and portions of Martha's Vineyard
- Storm surge of 2 to 4 feet expected
- Could be very similar to the December 18th event

Low chance of Moderate flooding on upper end of Narragansett Bay including Providence - timing of highest surge would need to be a few hours later

Significant beach erosion likely again on south facing ocean beaches





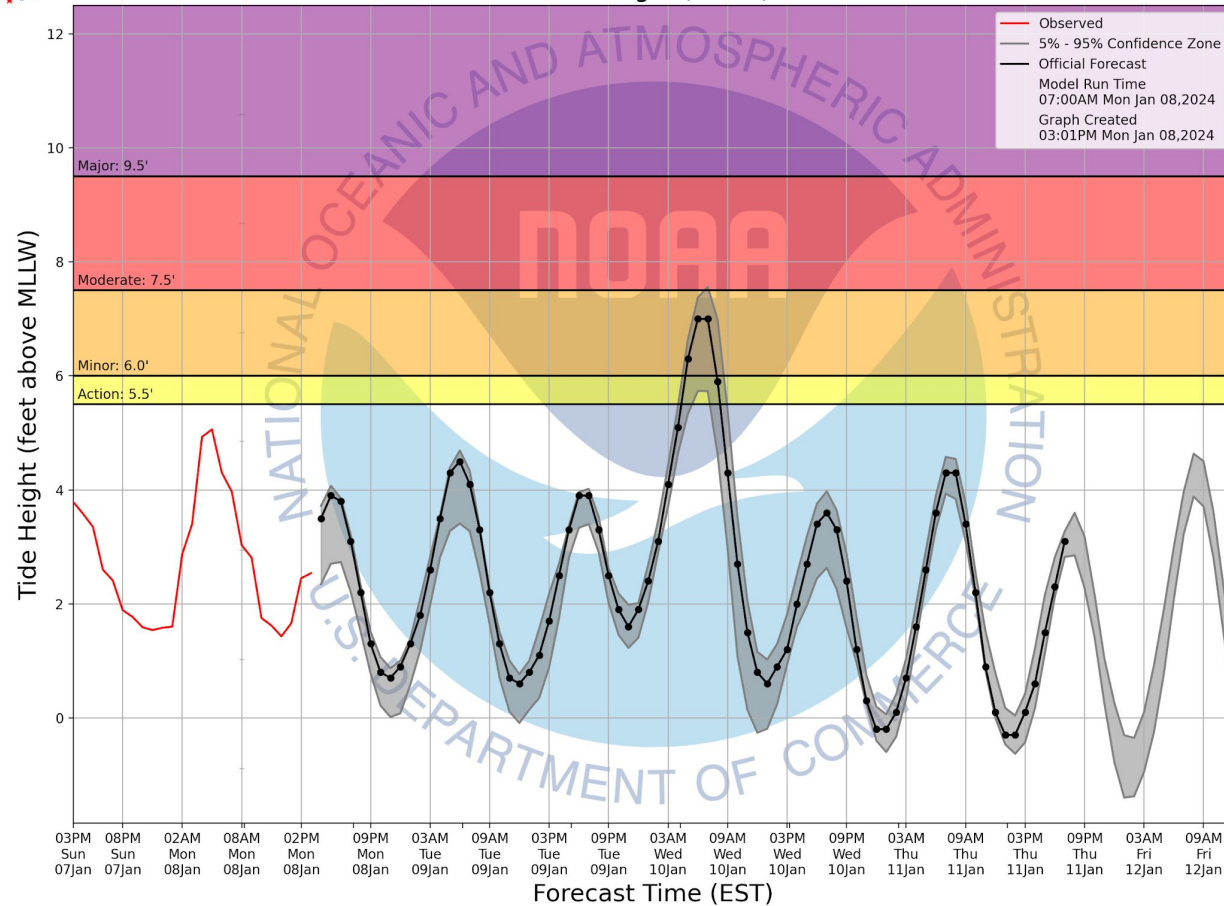
Coastal Flooding

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Buzzards Bay @ New Bedford (expected to reach Minor flood stage)



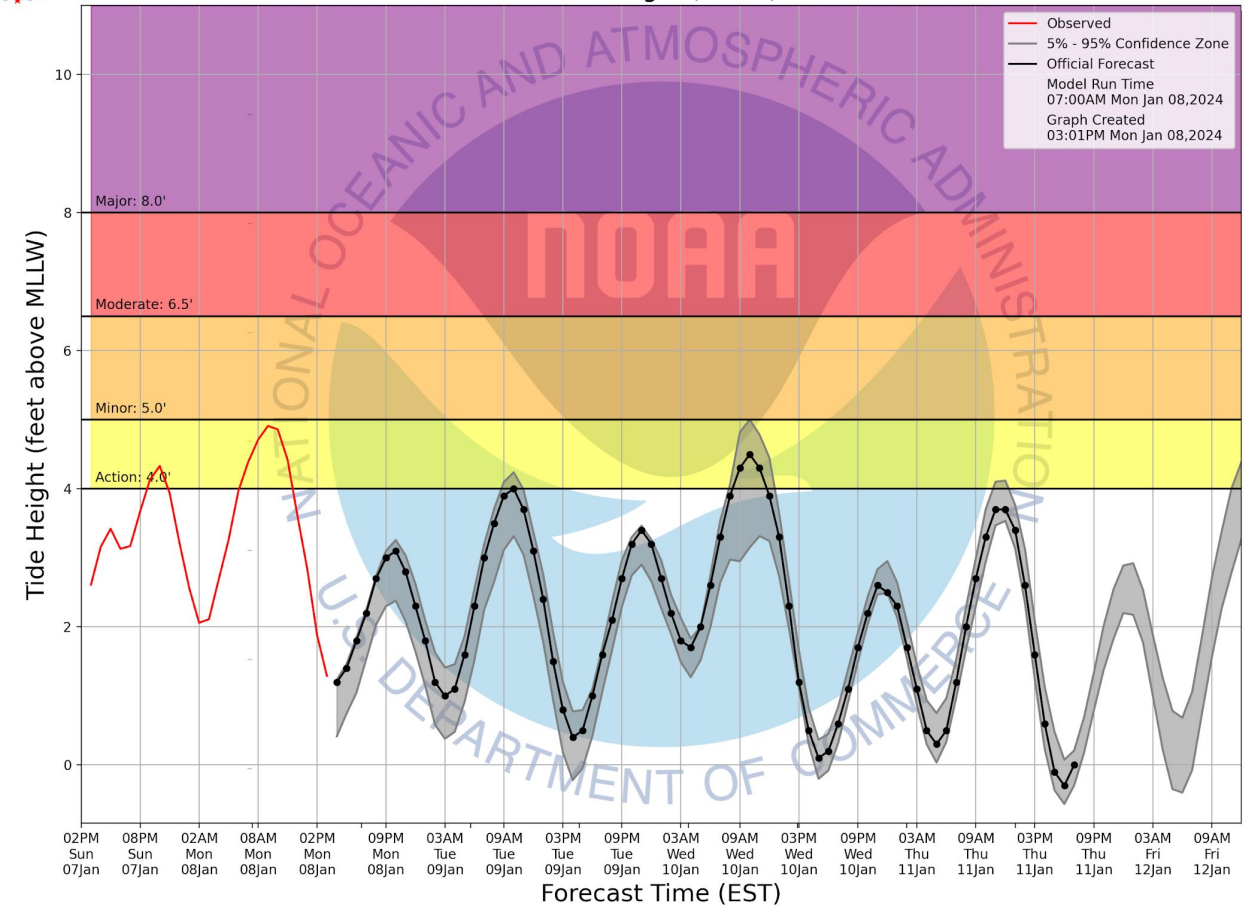
Buazzards Bay at New Bedford,MA
Tide Height (MLLW)

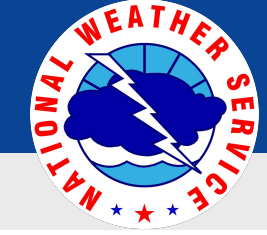


Nantucket Harbor (expected to stay below flood stage)



Nantucket Harbor at Nantucket,MA
Tide Height (MLLW)

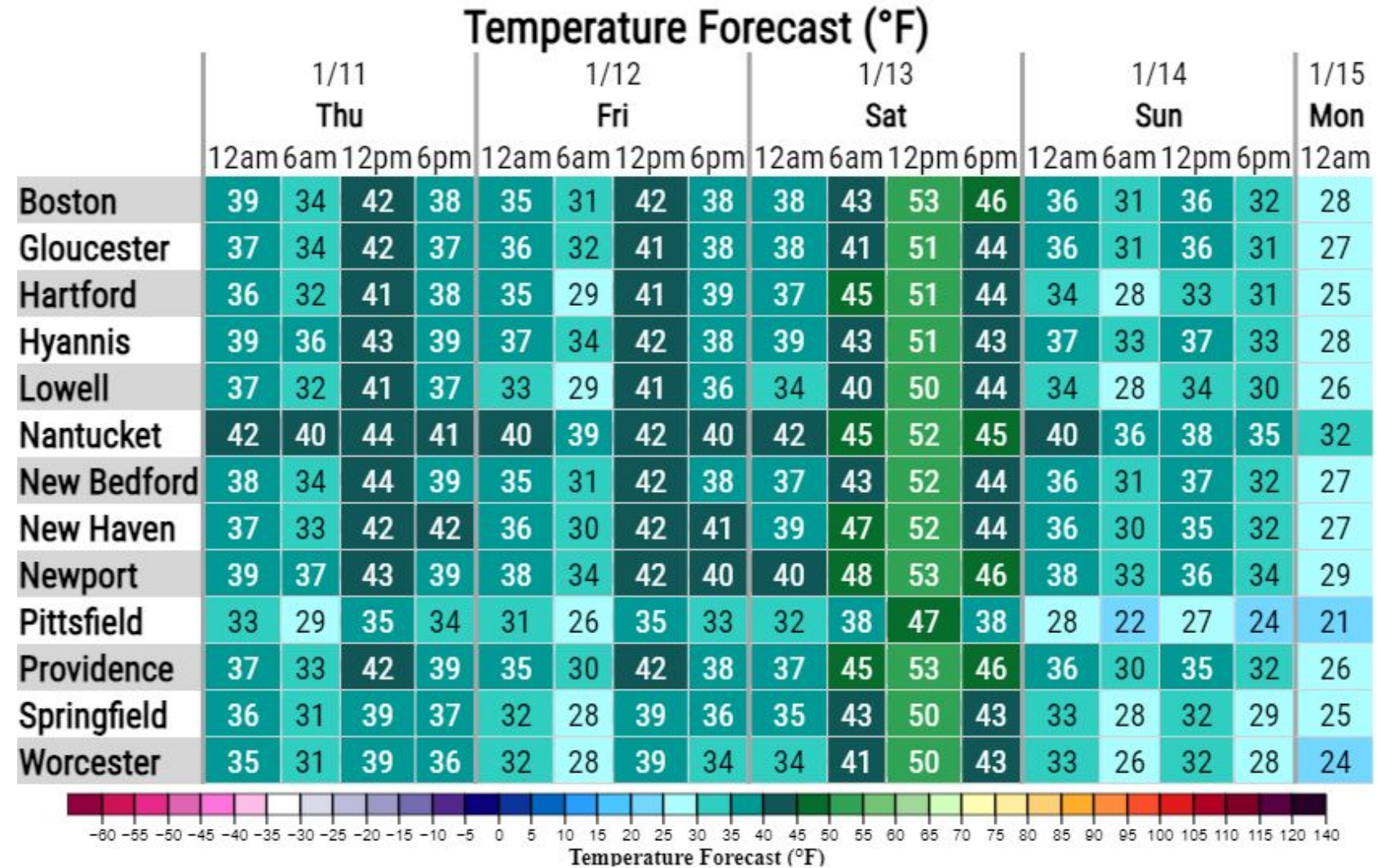


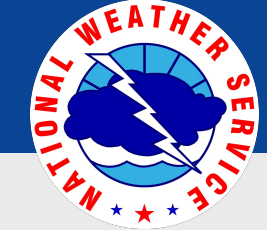


Post Storm Outlook

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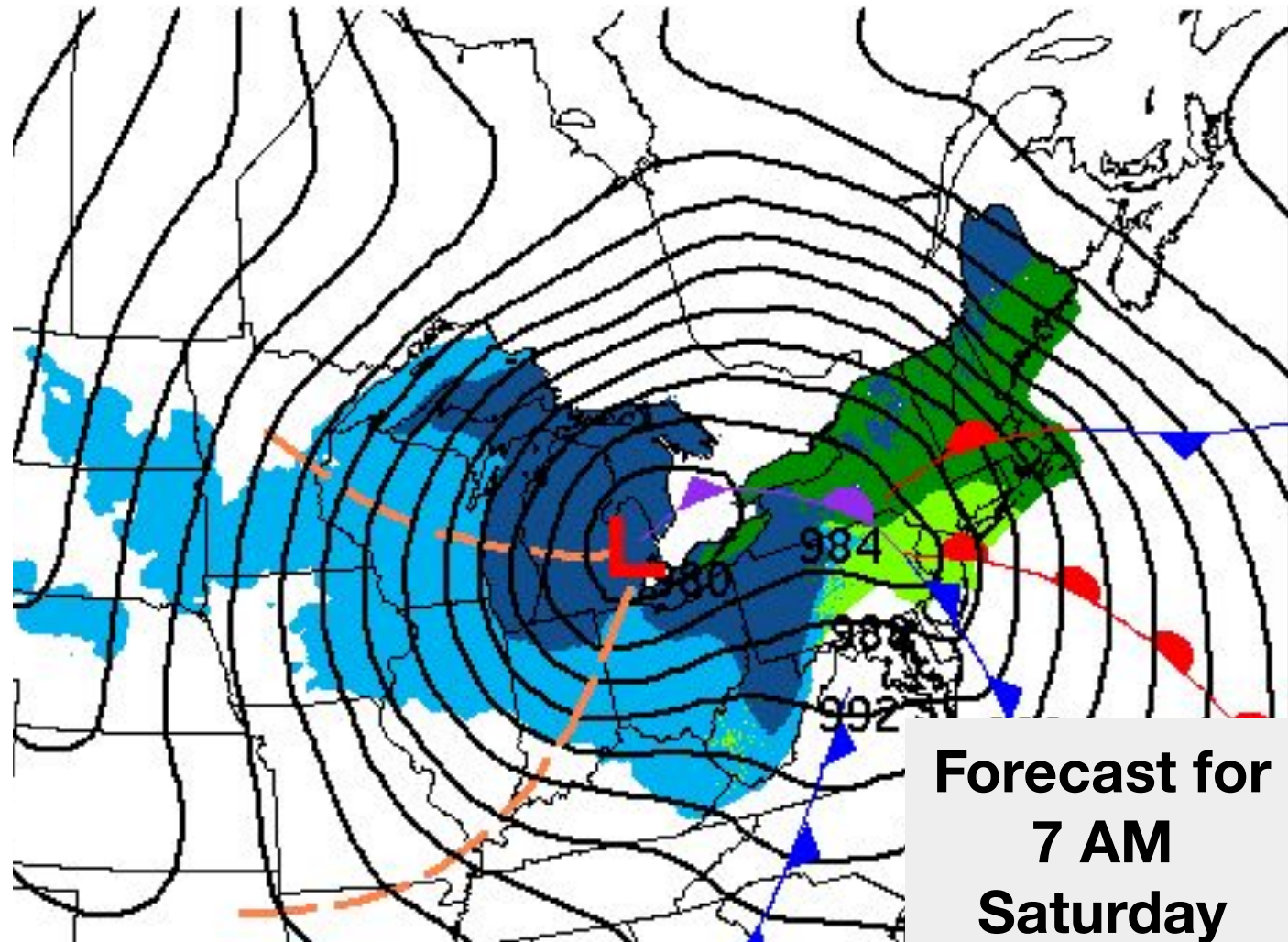
- Dry and quiet weather later on Wednesday through Friday
- A bit breezy late Wednesday through Thursday
- Seasonable temperatures
- Another system takes aim at us late Friday into Saturday





Next Potential Storm: Fri Night - Sat

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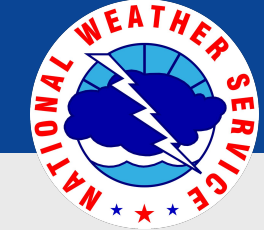


Another storm is expected to track to our west Saturday

This would be another “warm” storm with potential for:

- Flooding Rain
- Strong / Possibly Damaging Winds
- Minor Coastal Flooding (south coast)





Contact and Next Briefing Information

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For NWS Boston/Norton County Warning Area



Briefing Webpage

→ <https://www.weather.gov/box/emhome>



Next Briefing

→ By 6 AM, Tuesday

→ Method: Email



Disclaimer

→ Information contained in this briefing is time-sensitive

→ Do Not Use After: 6 AM, Tuesday January 9th



Contact Information

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Email

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→ www.facebook.com/NWSBoston

Twitter

→ @NWSBoston

