

National Weather Service Boston / Norton

Decision Support Briefing Sunday, December 10, 2023 3:15 PM

Potential for:

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

Tonight - Monday

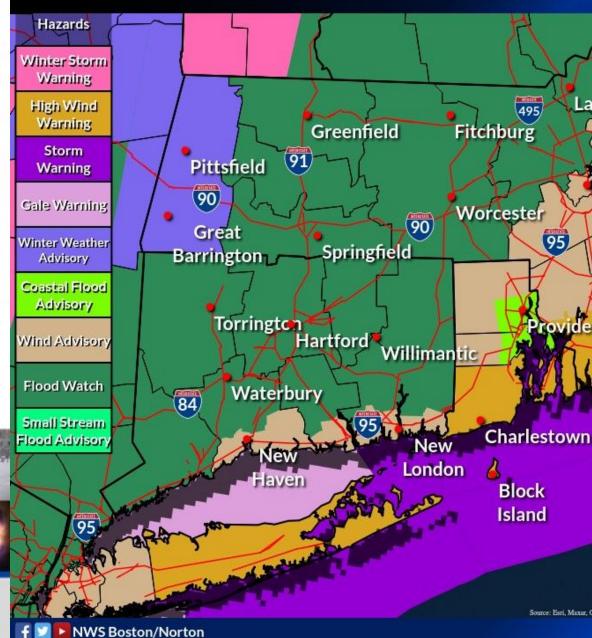




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What Has Changed: Higher confidence for flooding.

All Hazards



Weather Forecast Office Boston/Norton, MA Issued Dec 10, 2023 3:03 PM EST

Plymouth



Esri, Maxar, GeoEve, Barthstar Geographics, CNES/Airbus DS, USDA, USOS, AeroGRID, JON, and the GIS User Community

weather.gov/box

Provincetown

Nantucket

Ivannis



Key Points

Hazard		Impacts	Location	Ti
Damaging Wind	1	Downed trees/power lines and power outages	RI/MA south coast, including Cape/Islands	Tonight ir morning
Coastal Flooding		Minor flooding of coastal roads	Narragansett Bay, and RI/MA south coast	Monday tide
Flooding Rain		Significant street flooding & Minor/moderate river/stream flooding	West of I-95 corridor, especially CT into adjacent MA	Tonight ir morning
Hazardous Winds/Seas		Dangerous sea conditions for vessels	MA and RI waters	Tonight ir



December 10, 2023 3:21 PM

Fiming

into Monday

morning high

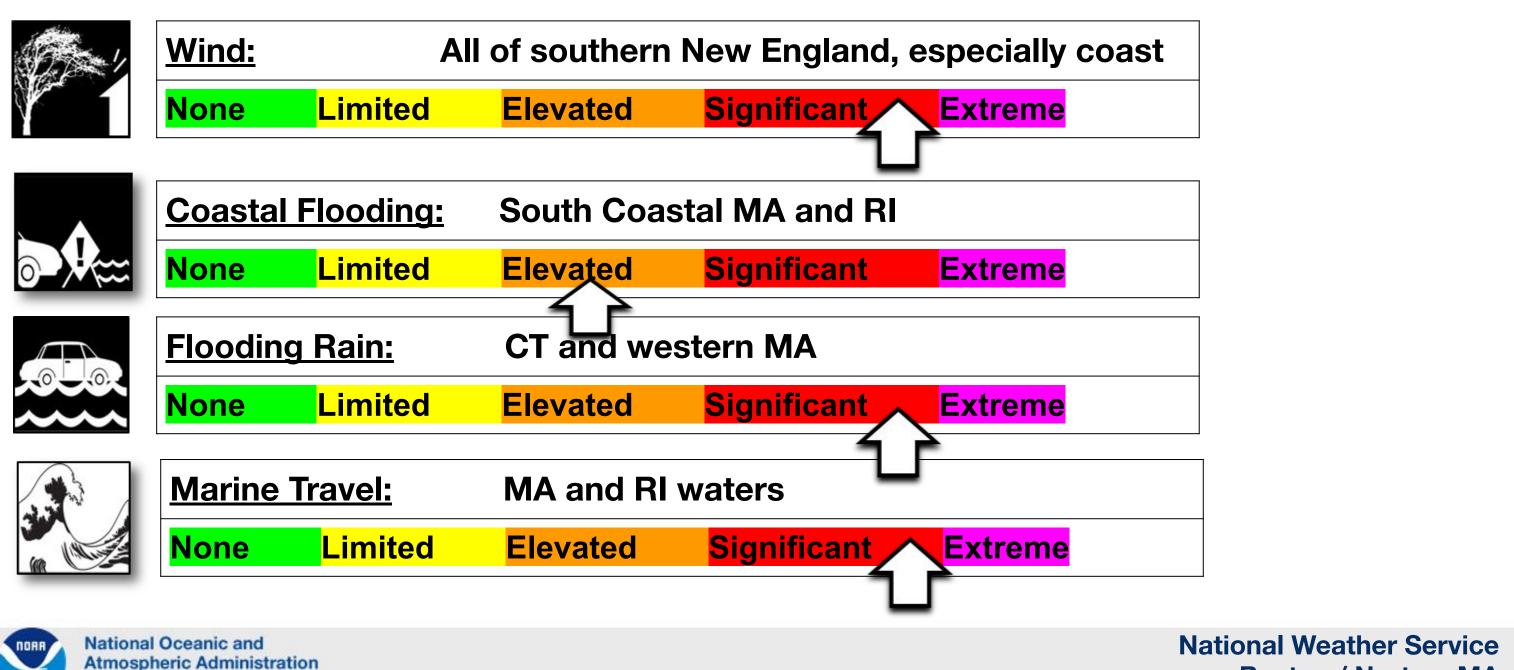
into Monday

into Monday



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Summary of Greatest Impacts



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Boston / Norton, MA



Wind Gust Forecast

Maximum Wind Gust Forecast (mph)

	12/	12/10		12/11			
	Su	Sun		Mon			
	12pm	6pm	12am	6am	12pm	6pm	Maximum
Boston	31	41	45	40-	39	36➡	45
Gloucester	291	37 ↑	44	49 ↑	45	36⇒	49
Hartford	31	36€	32	35*	37*	26	37
Hyannis	31	46	541	591	46	33⇒	59
Lowell	28	401	36	37	38	30➡	40
Nantucket	30€	45 ↑	541	611	51**	37	61
New Bedford	35	48	531	591	41➡	32	59
New Haven	32	44	387	38*	35*	26	44
Newport	38	511	531	541	40	32	54
Pittsfield	25	20	20	35*	38*	31➡	38
Providence	331	44	44	44	38	30⇒	44
Springfield	30€	32€	32*	32*	35*	26	35
Worcester	301	45	381	37*	38	31➡	45
10 15	20	25	30	35	5 4	0 45	50

lacksquareto east

Created: 2 pm EST Sun 12/10/2023 | Values are maximums over the period beginning at the time shown.

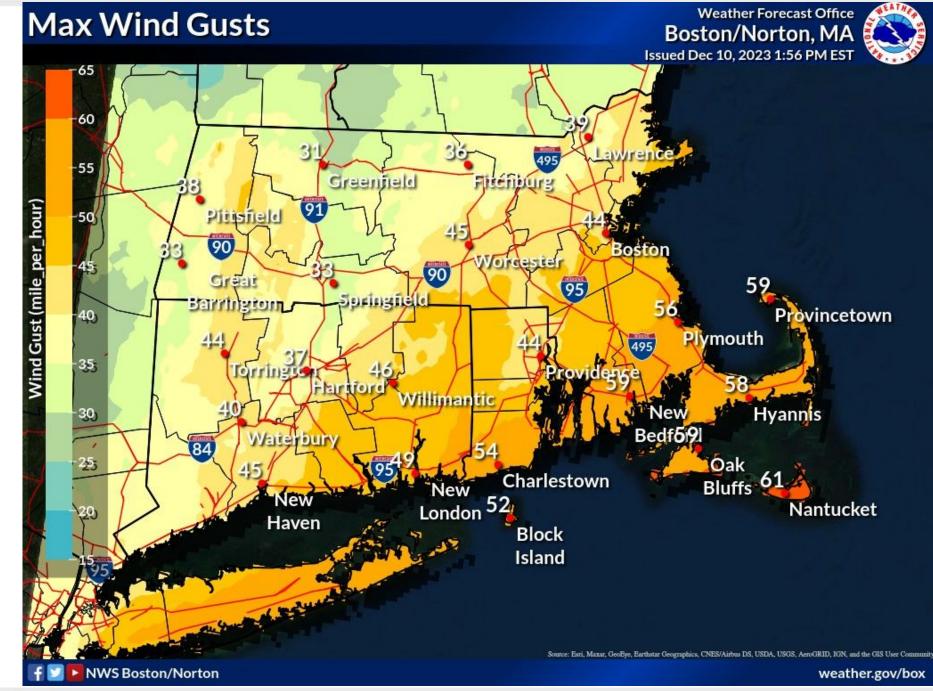


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Strongest wind gusts peak after midnight tonight into Monday morning from west



Wind Gust Forecast





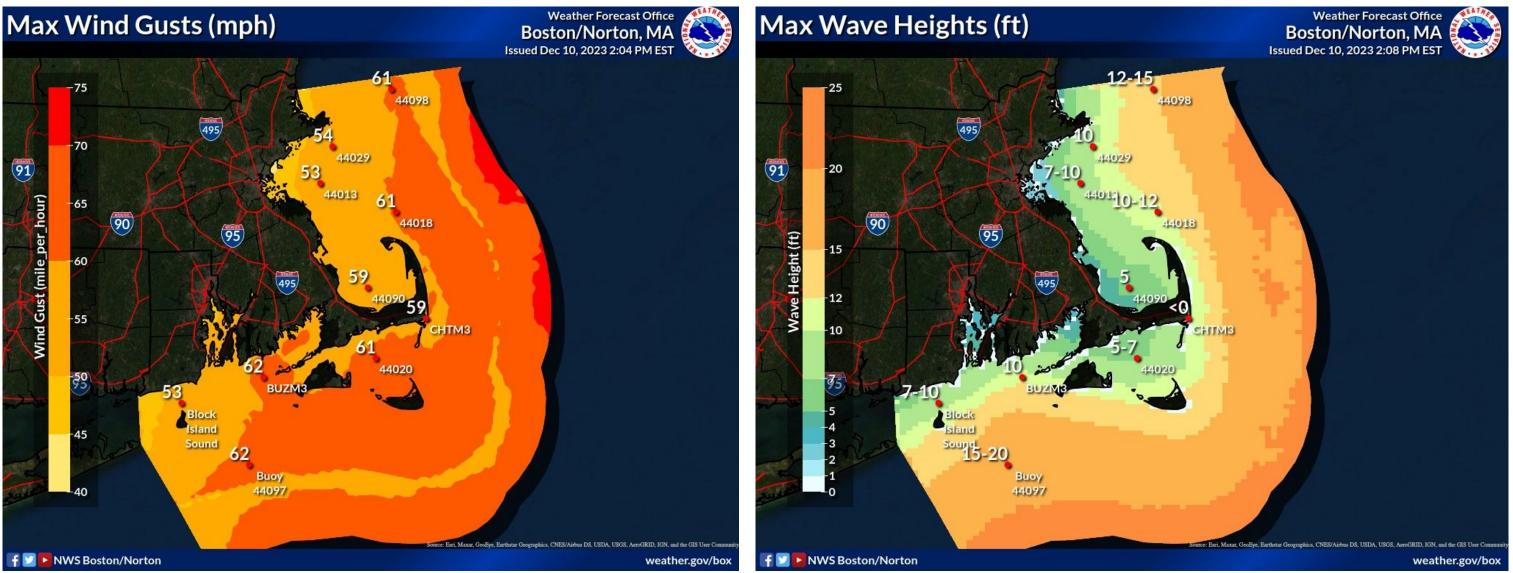
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Coastal Waters Winds and Seas



Winds peak tonight into Monday morning

Highest seas Monday



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Expected Weather

Weather Forecast						
	12/10			12/11		
	Sun		10	Mon 10pm		
_	12pm	6pm	12am	6am	12pm	
Boston	۵	۵	۵	۵	۵	
Gloucester	۵	۵	۵	۵	۵	
Hartford	۵	۵	۵	۵	۵	
Hyannis	۵	۵	۵	٥	۵	
Lowell	۵	۵	۵	۵	۵	
Nantucket	۵	۵	۵	٥	۵	
New Bedford	۵	۵	۵	۵	۵	
New Haven	۵	۵	۵	٥	۵	
Newport	۵	۵	۵	٥	۵	
Pittsfield	۵	۵	*	*	89	
Providence	۵	۵	۵	۵	۵	
Springfield	۵	۵	۵	۵	۵	
Worcester	۵	۵	۵	۵	۵	
Worcester	۵	۵				

Created: 2 pm EST Sun 12/10/2023. Shows most impactful weather for the period beginning at the time shown. Weather symbols display where Probability of Precipitation \geq 0%.



Created: 2 pm EST Sun 12/10/2023 |



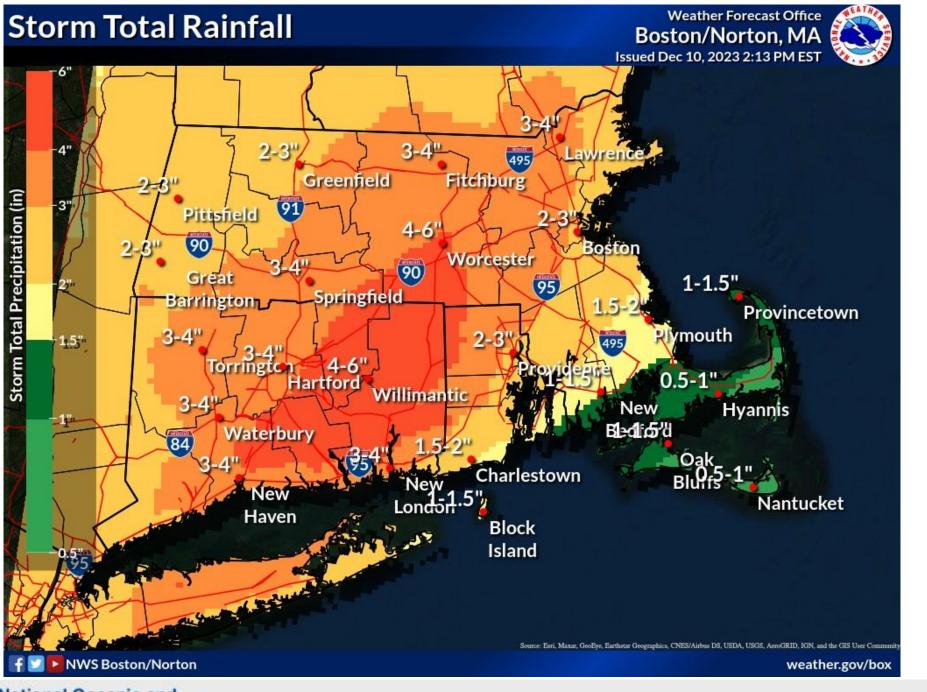
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Heaviest rain tonight into Monday morning

Rain changes to wet snow Monday morning in the higher elevations of the Berkshires



Rainfall Forecast



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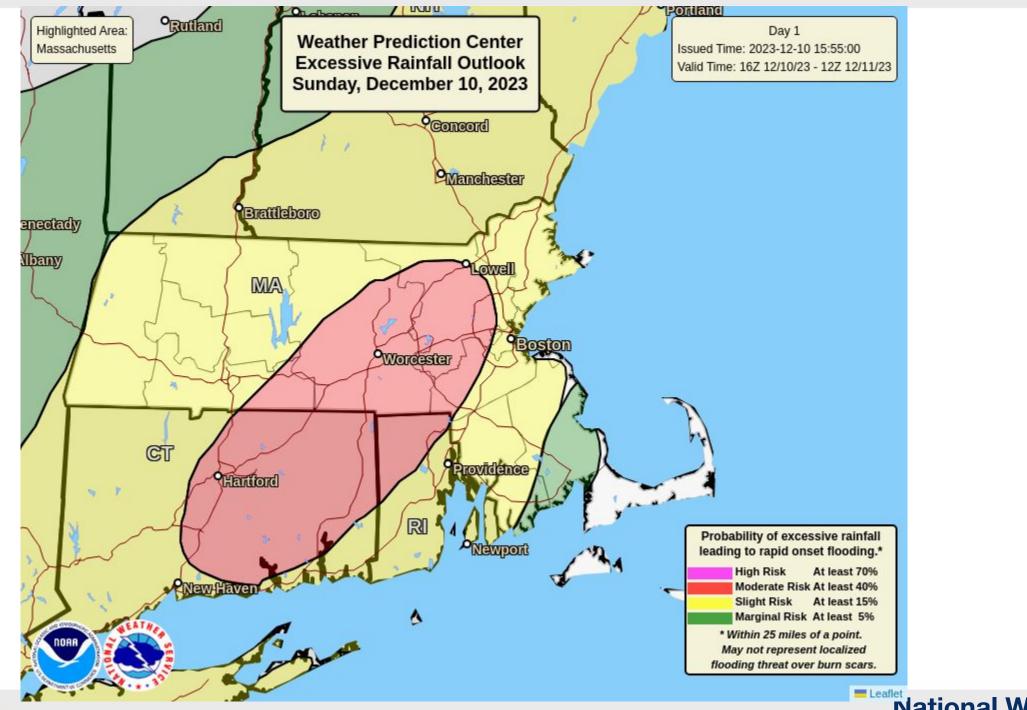
Heaviest rain tonight into **Monday morning**

Widespread rainfall 2-4 inches, locally 6+ inches across portions of **CT/adjacent MA/RI**

Significant street flooding possible for the Monday morning commute, especially across portions of CT/RI into central/W MA



Excessive Rainfall Outlook





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Snowfall Forecast



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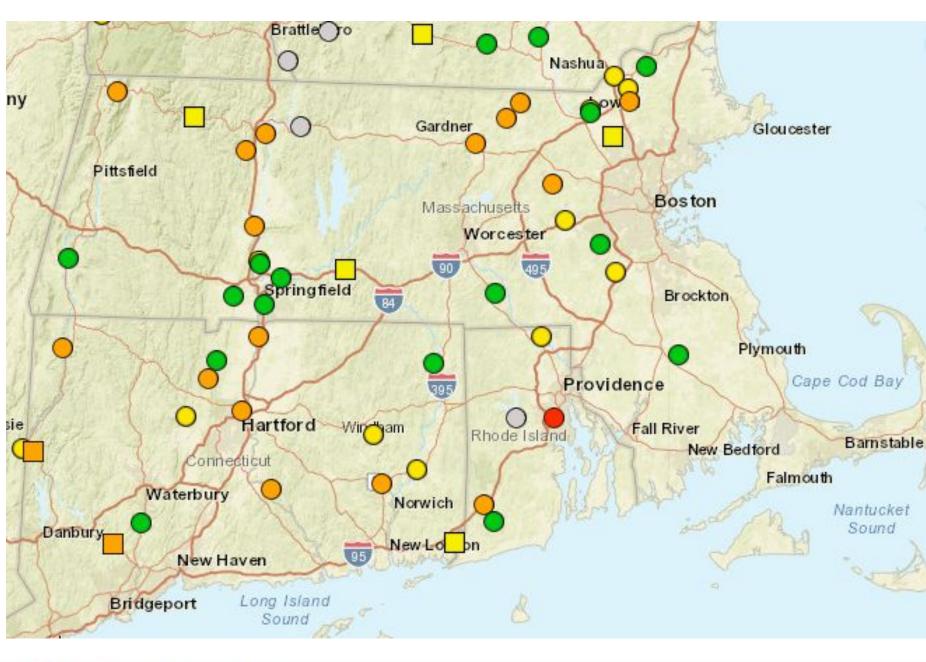
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Rain changes to wet snow Monday morning in the **Berkshires**

Heaviest accumulations confined to west slopes of Berkshires



River Flood Outlook



probability a few spots could (Orange circles = 30% chance)

upon rainfall amounts

Ch	nance of Exceedance	121
30%	Level	70%
0	Action	
0	Minor Flood	
0	Moderate Flood	
0	Major Flood	
= less than	30% chance of reaching A	Action leve
O = no ci	ritical levels defined for this	s point



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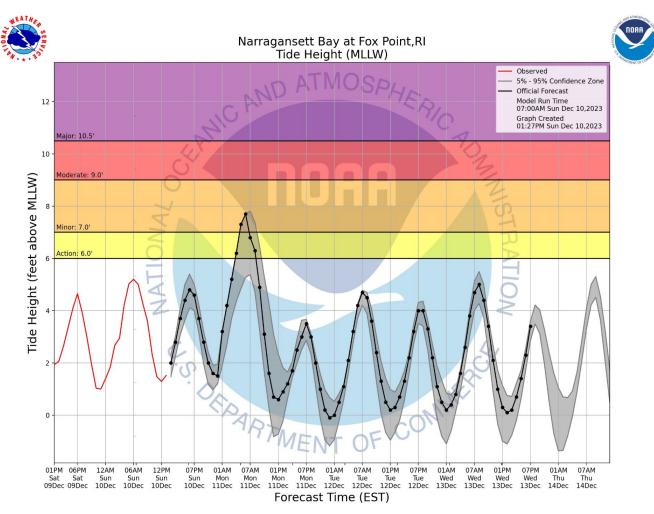
Minor river flooding is likely (around 70%) Monday along the tributaries of the mainstem Connecticut River. However, there is a low (20-30%) experience moderate flooding (red).

Extent and level of flooding is dependent



Coastal Flooding

Total Water Level Forecast: Providence



Minor: flooding less than one foot deep **Moderate:** flooding 1 to 2 feet deep



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- Minor flooding most likely during the Monday morning high tide for areas adjacent to **Narragansett Bay**
- Lower risk of very minor flooding along the rest of RI/MA south coast



December 10, 2023 3:21 PM



Threat Event Summary

<u>Confidence:</u> High (80%) on a high impact storm

What:



Downed trees/power lines from 45-65 mph winds, strongest coast



likely



Minor coastal flooding, especially along Narragansett Bay



<u>Where:</u> All of southern New England (CT, MA, and RI)

<u>When:</u> Tonight into Monday



December 10, 2023 3:21 PM

Minor to moderate river/stream flooding. Significant street flooding

Dangerous conditions for marine vessels Sun night into Monday