

National Weather Service Boston / Norton

Decision Support Briefing Sunday, December 10, 2023 4:00 AM

Potential for:

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

Late Today - Monday

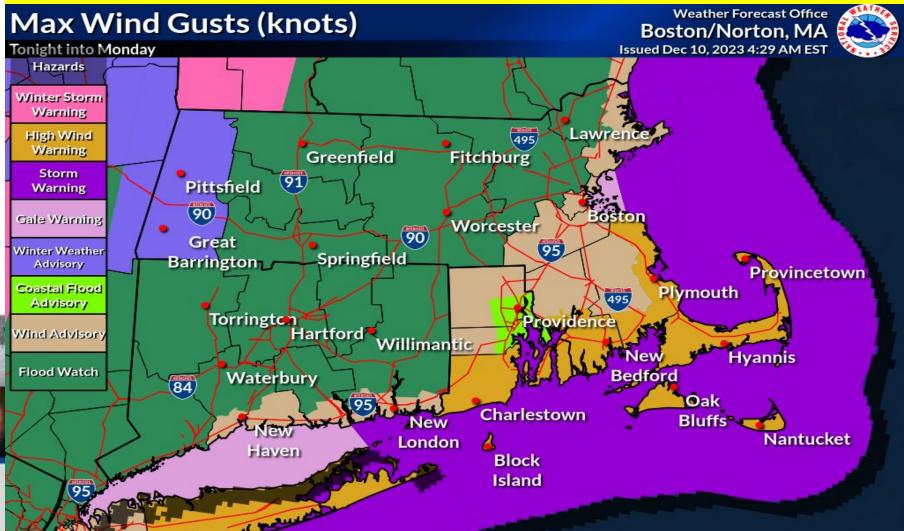




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What Has Changed:

- High Wind Warning for south coast and Cape/Islands 0
- Wind Advisory for rest of RI and eastern MA along I-95 corridor
- Coastal Flood Advisory for Narragansett Bay and south coast of RI/MA





Key Points

Haza	rd	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 ı tide
Flooding Rain		Significant street flooding and Minor river/stream flooding	West of I-95 corridor, especially CT into adjacent MA	Tonight ir morning
Hazardous Winds/Seas		Dangerous conditions for vessels	MA and RI waters	Tonight ir



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Timing

into Monday

morning high

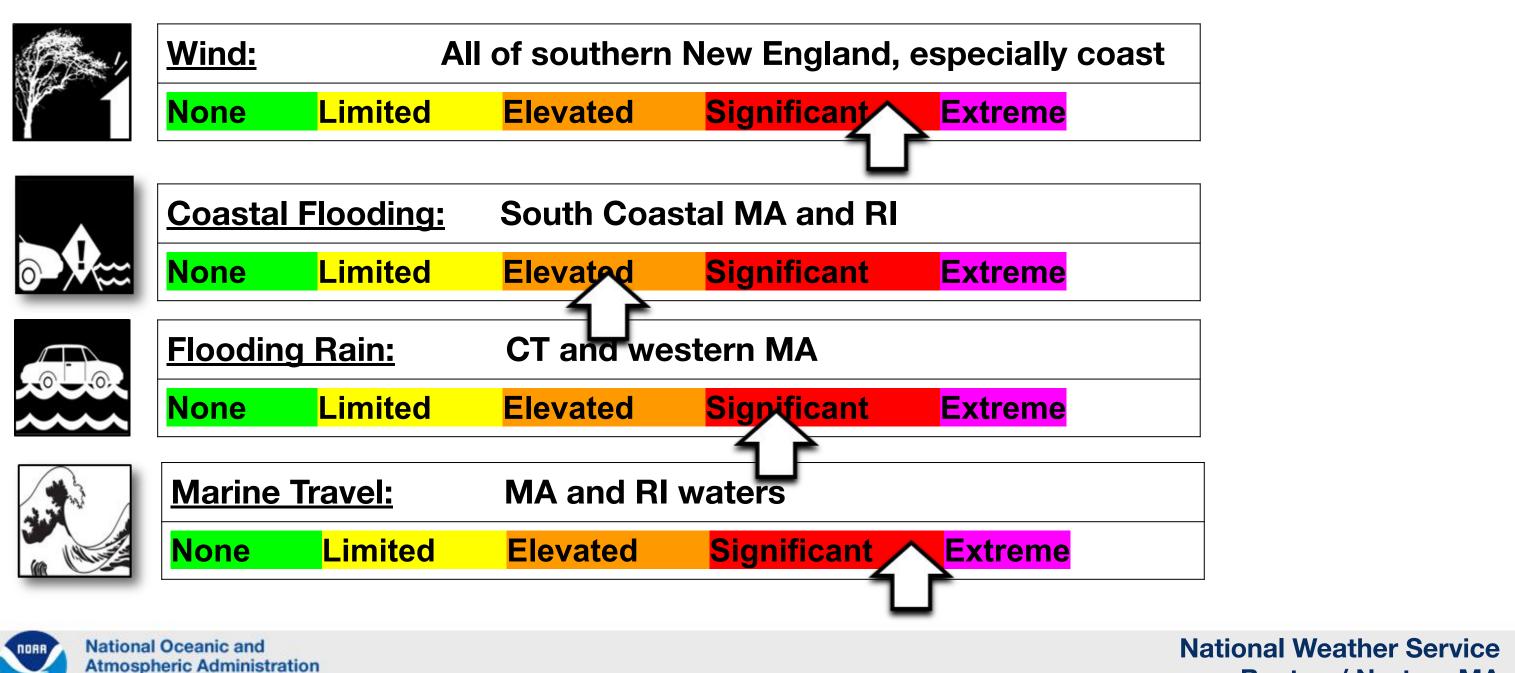
into Monday

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)	
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	12/10 Sun			12/ M			
	12pm	6pm	12am	6am	12pm	6pm	Maximum
Boston	31	41	451	40	39➡	36+	45
Gloucester	291	37🕇	44	491	45	39	49
Hartford	31 1	361	32	35*	37*	30	37
Hyannis	31🕇	46	541	59	46	37→	59
Lowell	28	40	36🕈	37	38	33-	40
Nantucket	301	45	541	61 *	51#	43	61
New Bedford	35	48	531	591	41➡	35	59
New Haven	38	44	387	38*	35	26	44
Newport	381	511	53*	54 🕈	40	33	54
Pittsfield	25	18#	17\$	32	36*	36	36
Providence	331	44	44	44	38	32→	44
Springfield	301	321	32*	32*	35*	26	35
Worcester	301	45	38	37*	38	32→	45

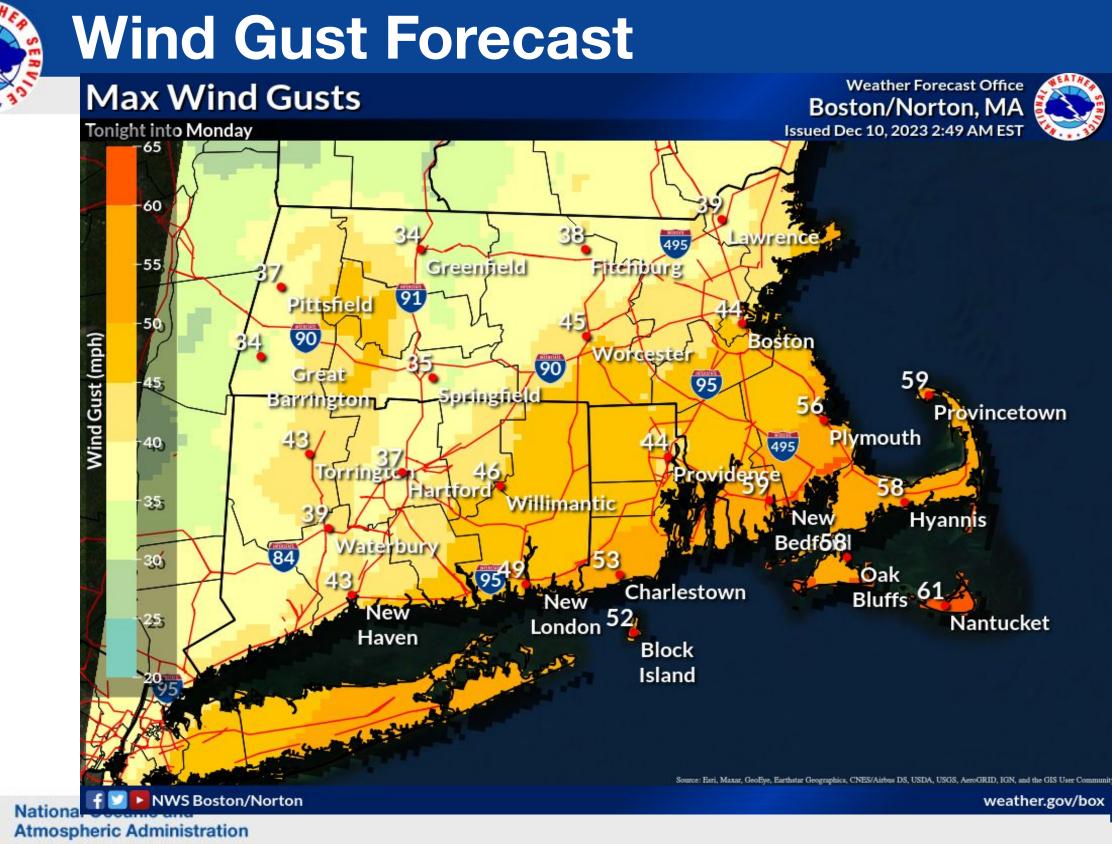
to east

Maximum wind Gust Forecast (mpn) Created: 3 am 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



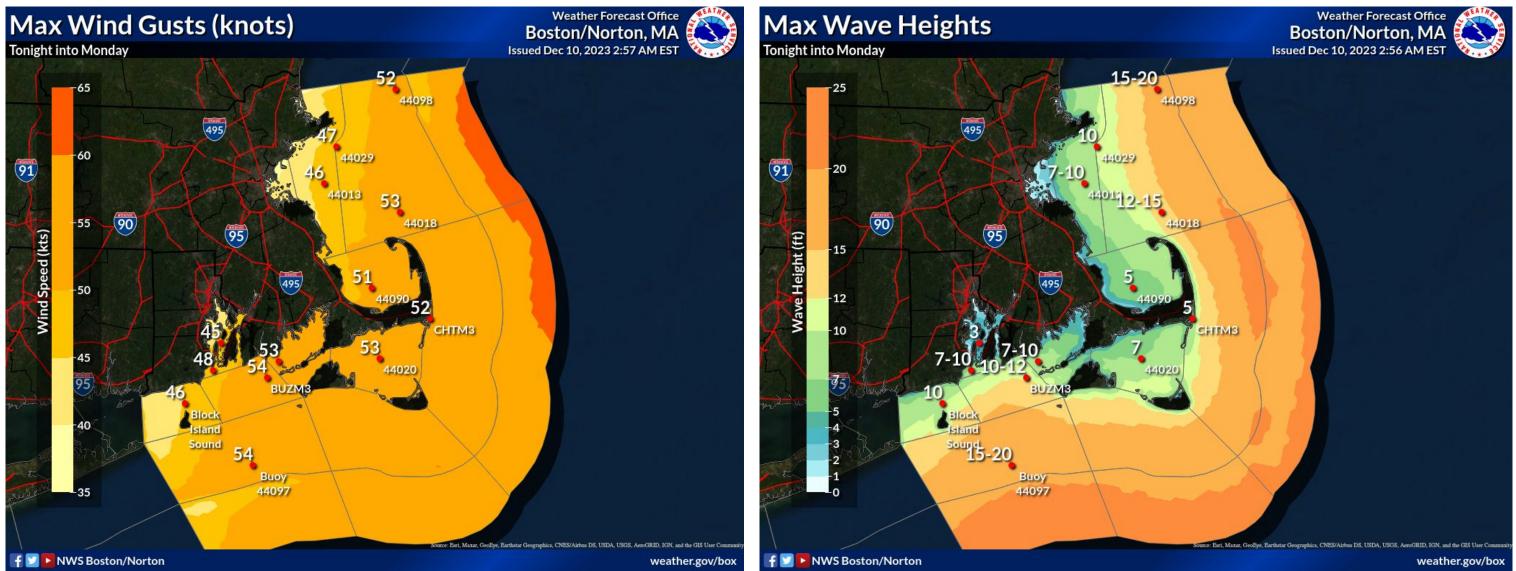
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Coastal Waters Winds and Seas



Winds peak tonight into Monday morning

Highest seas Monday



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Expected Weather

	Weathe	er Forecast			
	12/1	0		12/11	
	Sur	n			
	12pm	6pm	12am	6am	12pm
Boston	۵	٥	۵	۵	۵
Gloucester	۵	۵	۵	۵	۵
Hartford	۵	۵	۵	۵	۵
Hyannis	۵	۵	۵	۵	۵
Lowell	۵	۵	۵	۵	Ó
Nantucket	۵	۵	۵	۵	۵
New Bedford	۵	۵	۵	•	۵
New Haven	۵	٥	۵	۵	۵
Newport	۵	۵	۵	6	۵
Pittsfield	۵	٥	*	*	*
Providence	۵	٥	۵	•	۵
Springfield	۵	۵	۵	۵	۵
Worcester	۵	۵	۵	۵	۵

Created: 3 am EST Sun 12/10/2023. Shows most impactful weather for the period beginning at the time shown. Weather symbols display where Probability of Precipitation > 0%.

- Wintry Mix + - Snow + - Rain +

Created: 3 am EST Sun 12/10/2023 |

- Fog +



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Heaviest rain tonight into Monday morning

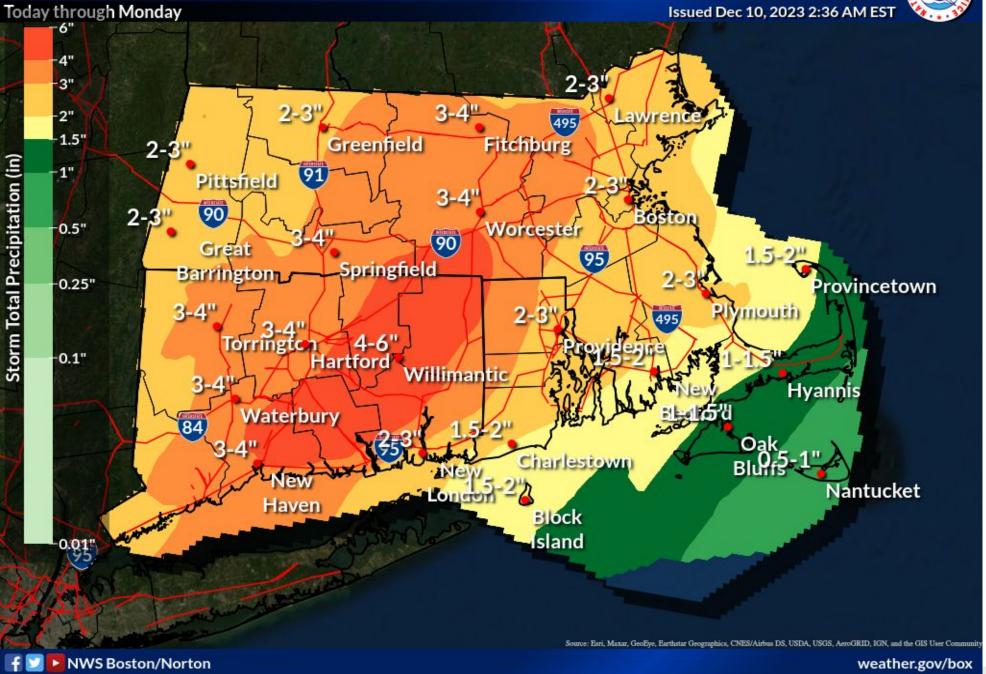
Rain changes to wet snow Monday morning in the higher elevations of the Berkshires



Rainfall Forecast

Storm Total Rainfall

Weather Forecast Office Boston/Norton, MA





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Heaviest rain tonight into Monday morning

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

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



Snowfall Forecast

Weather Forecast Office **Storm Total Snowfall** Boston/Norton, MA Issued Dec 10, 2023 2:38 AM EST Monday Lawrence 495 Greenfield Fitchburg Storm Total Snow Amounts (in) 91 Pittsfield 12 90 Boston Worcester 90 Great 95) Springfield Barrington Provincetown Plymouth 495 Torrington Providence Hartford Willimantic New Hyannis Bedford Waterbury 84 Oak (95) Charlestown Bluffs New New Nantucket London Haven Block Island ar GeoEve, Earthstar Geographics, CNES/Airbus DS, USDA, USOS, AeroGRID, IGN, and the GIS User Comp

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weather.gov/box

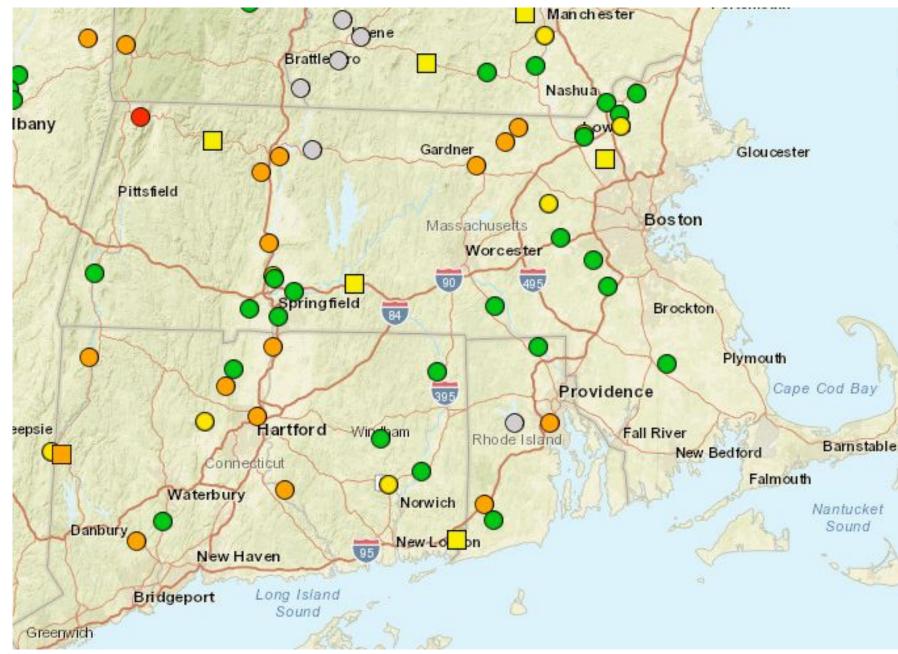
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Rain changes to wet snow Monday morning in the **Berkshires**

Heaviest accumulations confined to west slopes of Berkshires



River Flood Outlook



• flooding (Orange circles = 30% chance)

upon rainfall amounts

		70%
0	Action	
0	Minor Flood	
	Moderate Flood	
0	Major Flood	
= less than 30%	chance of reaching A	Action leve



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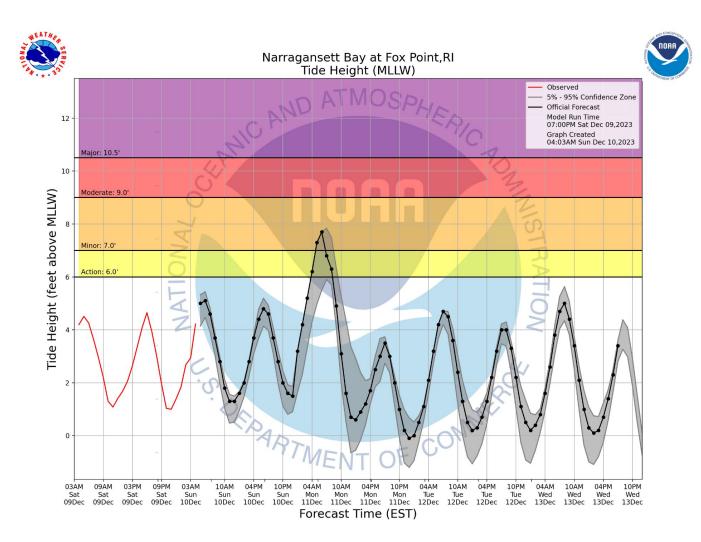
Minor river flooding is likely (around 60%) Monday along the tributaries of the mainstem Connecticut River. There is a low (10-20%) probability a few spots could experience moderate

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



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Temperature Forecast

Maximum Temperature Forecast (°F)

Sur 2pm 59 56 58 56 56	n 6pm 60 55 59 55	12am 60 55 55	6am 57 53 45	on 12pm 46 46	6pm 41 39	12am 34 34	Tu 6am 39	12pm 41	6pm 37	Maximum 60
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59	57	57	56	48	39	33	40	42	37	59
58	58	55	44	44	39	33	39	42	38	58
57	58	58	56	46	40	35	39	41	39	58
55	53	43	34	36	32	28	33	36	32	55
59	60	60	57	45	39	33	38	41	36	60
57	58	54	44	42	38	32	37	40	35	58
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-60-55-50-45-40-35-30-25-20-15-10-5 0 5 10 15 20 25 30 35 40 45 50 55 60 65 70 75 80 85 90 95 100 105 110 115 120 140 Maximum Temperature Forecast (*F)

Created: 4 am EST Sun 12/10/2023 | Values are maximums over the period beginning at the time shown.



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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



flooding possible



Minor coastal flooding, especially along Narragansett Bay



vessels Sun night into Mon

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

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



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Minor river/stream flooding in CT and western MA. Significant street

Dangerous conditions for marine



Contact and Next Briefing Information

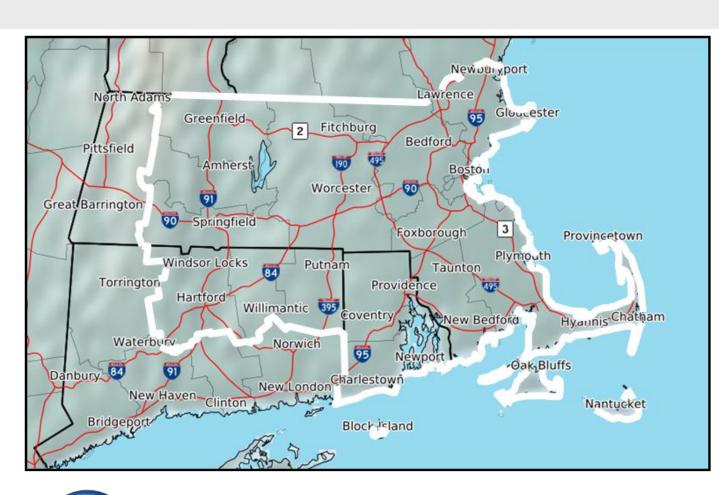
Next Briefing:

When: 6 PM Sunday, December 10 *Method:* Email

Disclaimer: The information contained within this briefing is time-sensitive, do not use after 6 PM, Sunday, December 10









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