



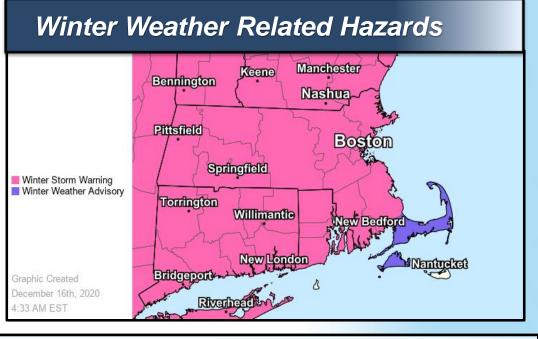
Winter Storm **Tonight Night and Thursday**

NATIONAL WEATHER SERVICE

National Weather Service **Decision Support Briefing #4** Wednesday, December 16, 2020 4:30 AM

What Has Changed?

- ✓ Winter Storm Watch converted to Winter Storm Warnings except Advisory for Barnstable and Dukes Counties.
- Increased snow amounts across interior New England.
- ✓ Increased risk for flash freeze Thurs AM for Southeast MA.













Main Points

Hazard		Impacts	Location	Timing
Heavy Snow	*	Difficult travel; 1-2"/hr. snowfall rates; Low visibility	Much of southern New England. Lesser intensity across Cape Cod and the Islands.	7-9 PM tonight through Thursday morning
Strong Winds	್ರಂ	Blowing/drifting snow, Minor wind damage and isolated power outages	Strongest gusts 30-40 mph eastern MA coast, except 40- 55 mph over Cape/Islands	Tonight and Thursday
Coastal Flood		Minor nuisance flooding. Inundation of 1-2 feet of low- lying areas & vulnerable coastal roads.	Eastern MA coast including Cape Cod, Martha's Vineyard and Nantucket	High tide early Thursday afternoon
Marine		Gale force wind gusts 40-45 knots and seas 12-17 feet offshore	MA and RI coastal waters	Tonight and Thursday
Flash Freeze		Slick roads due to rapidly falling temperatures.	Mainly South Shore and into southeast MA.	Thursday mid to late- morning.

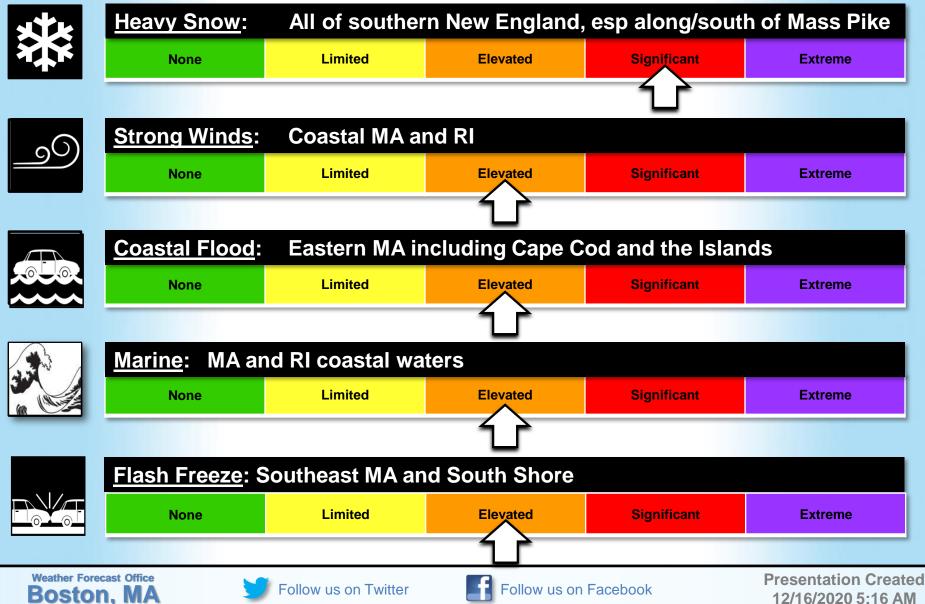








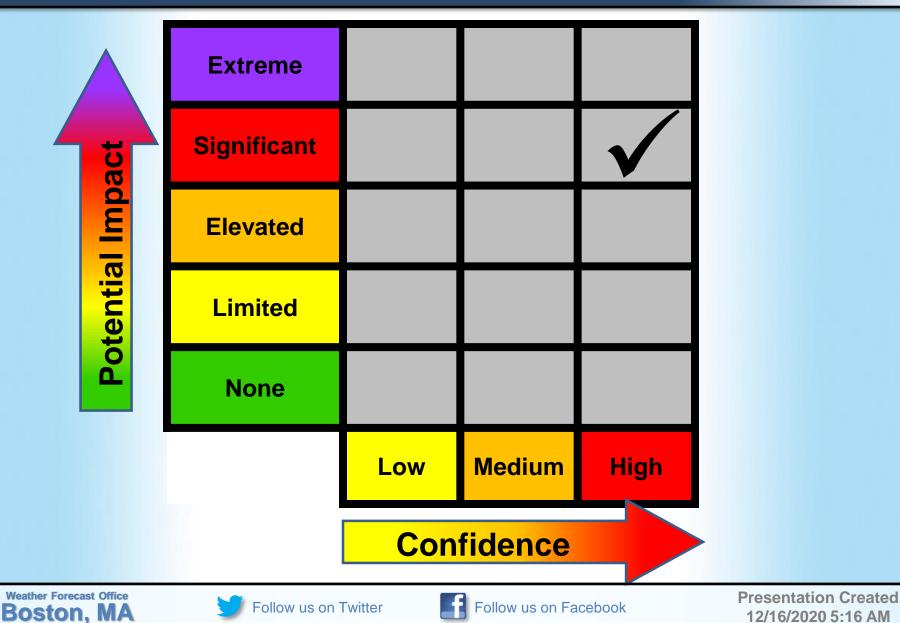
Summary of Greatest Impacts







Winter Storm Threat and Confidence

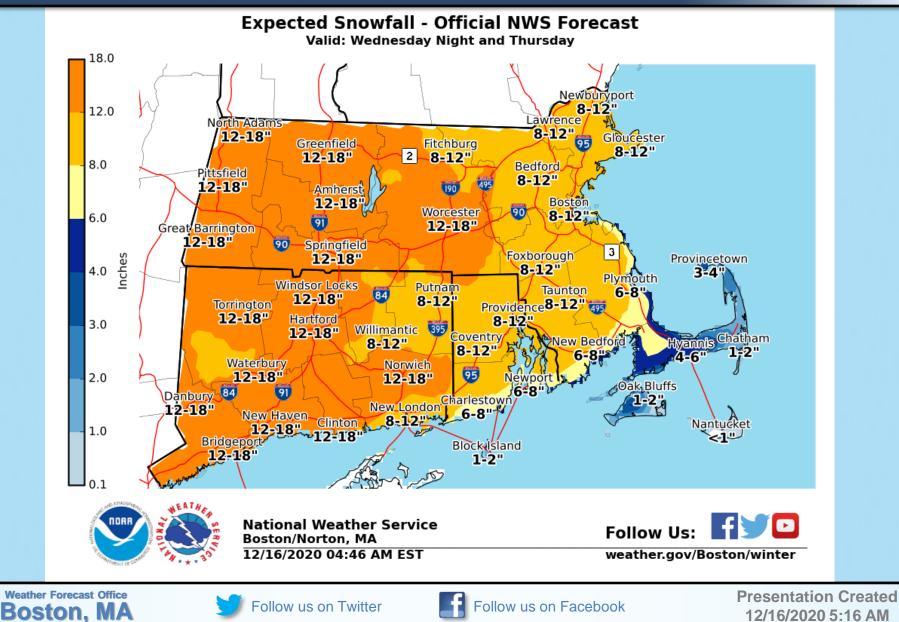








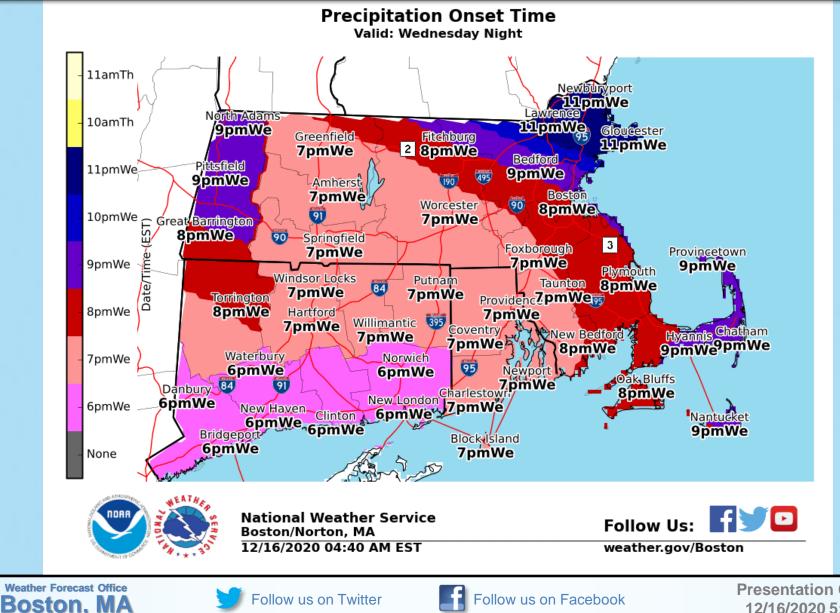
Forecast Storm Total Snowfall







Onset of Winter Weather Threats



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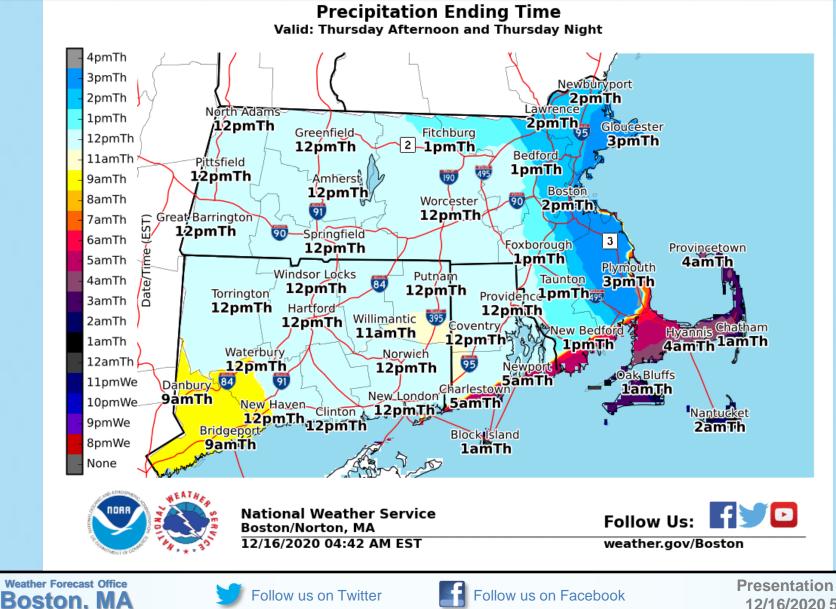
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End Time of Winter Weather Threats

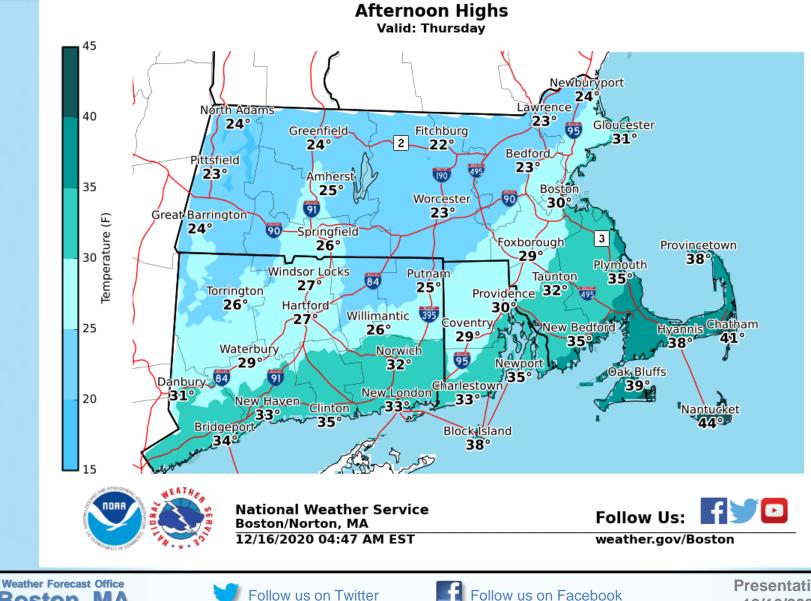




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Thursday High Temperatures



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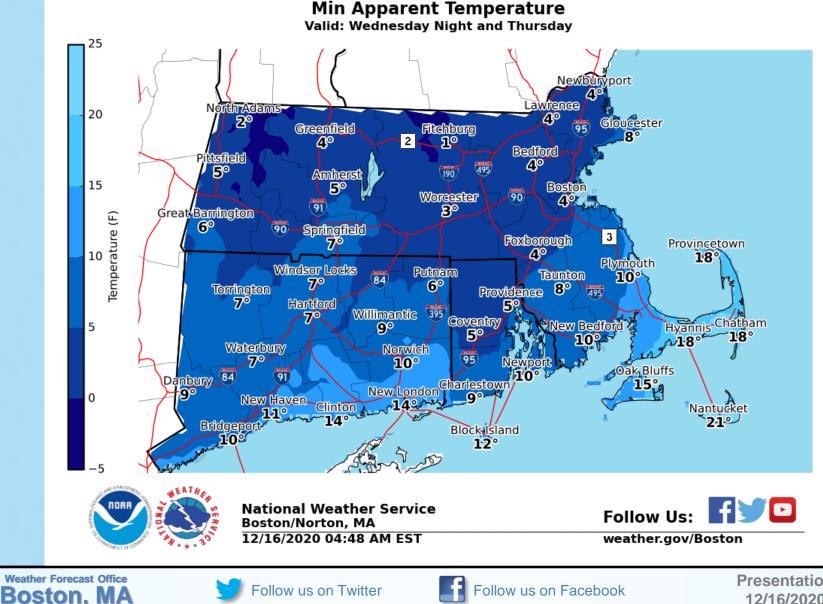
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Thursday Minimum Wind Chills

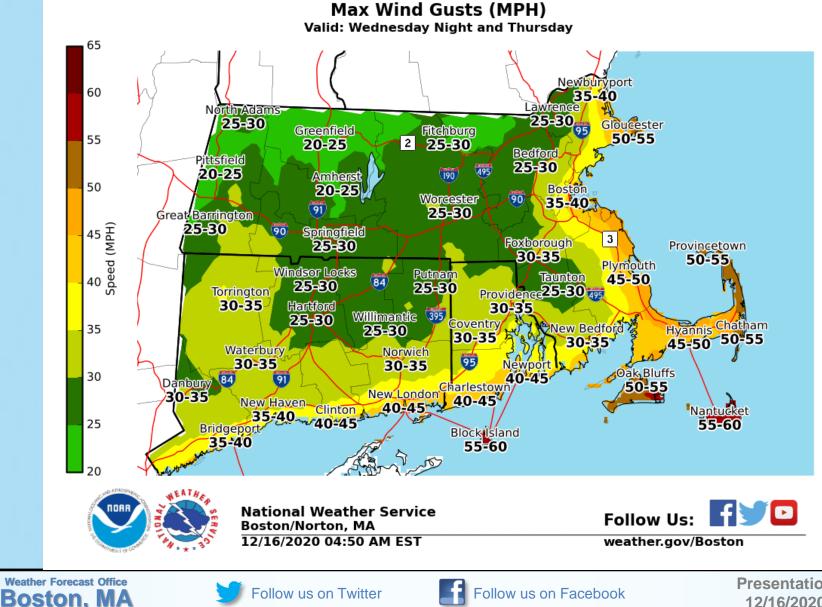


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Forecast Maximum Wind Gusts: Wednesday Night and Thursday



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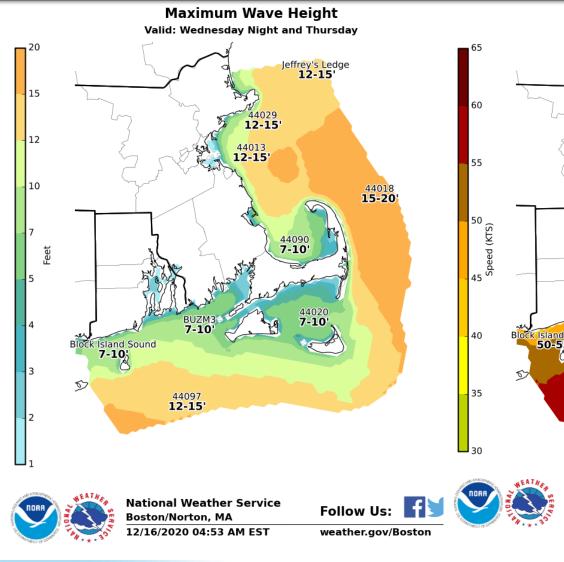
Weather Forecast Office

Boston, MA

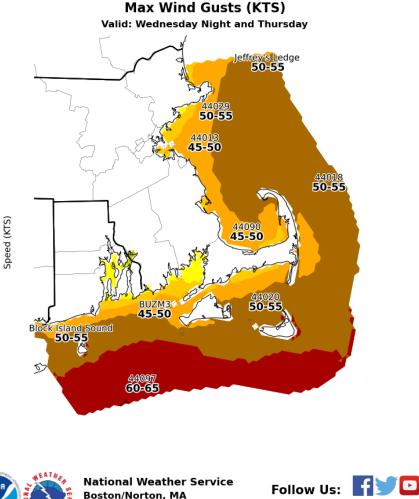


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Forecast Maximum Wave Heights and Wind Gusts (knots): Wed Night/Thu



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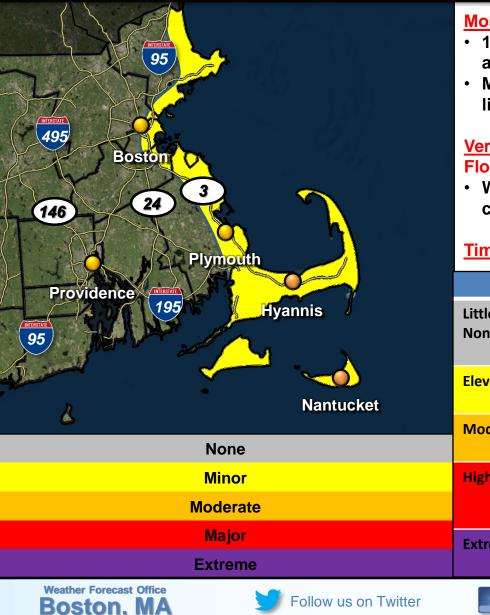




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Coastal Flooding – Coastal Flood Advisory Early Thursday Afternoon

NATIONAL WEATHER SERVICE



Most Likely: Minor Coastal Flooding

- 1 to 2 feet of inundation, especially for low-lying areas and vulnerable shore roads.
- Minor beach erosion, especially more vulnerable spots, like Plum Island, MA.

Very Worst Case (unlikely): Low-end Moderate Coastal Flooding

 Would be more widespread flooding with some road closures and local inundation of 2 to 3 feet

Timing: High tide early Thursday afternoon.

ket		Storm Surge Threat	Potential Impacts from Storm Surge
	Little to None	0 to 1 feet above ground	No immediate preparations needed. Little to no potential storm surge flooding impacts
	Elevated	1 to 3 feet above ground	Prepare for minor flooding impacts
	Moderate	3 to 6 feet above ground	Prepare for widespread flooding with more significant impacts
	High	6 to 9 feet above ground	Prepare for major flooding. Some travel routes may be closed.
	Extreme	> 9 feet above ground	Prepare for devastating to catastrophic flooding.
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Threat Event Summary

Confidence: Moderate to high on accumulations and expected impacts.
What:



Heavy snow, resulting in difficult travel.



Minor coastal flooding.



Strong winds producing blowing/ drifting snow and minor damage.



Hazardous marine conditions due to gale force winds and rough seas.



Flash freeze for Southeast MA Thurs AM.

Where: All of Southern New England

✓ When: Tonight into Thursday



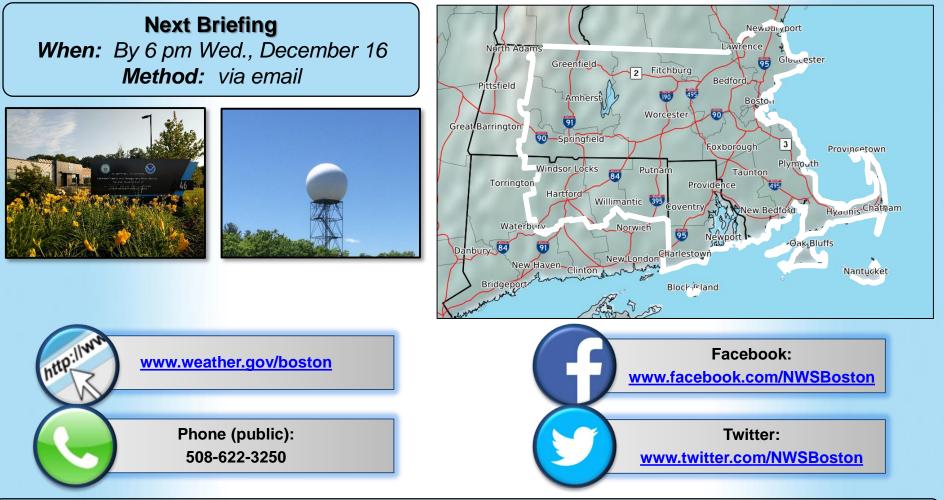








Contact and Next Briefing Information



Disclaimer: The information contained within this briefing is time-sensitive, do not use after 6 pm, Wednesday, December 16, 2020

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