

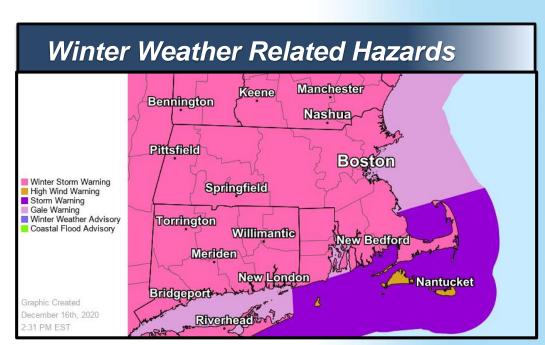


Winter Storm Tonight and Thursday

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

What Has Changed?

- ✓ Upgraded to Winter Storm Warning for Barnstable County.
- ✓ Hoisted High Wind Warnings for the Islands.
- ✓ Upgraded to Storm Warnings across all Southern waters.
- ✓ Increased snowfall across NE MA, NE CT and Northern RI.













Main Points

Heavy Snow	*

Hazard

Impacts

Location





Difficult travel: 1-2"/hr. snowfall rates with isolated 3"/hr. overnight; Snow

will stick to all surfaces

immediately. Near zero

visibility at times.

Much of southern New England. Lesser intensity across Cape Cod and the Islands.

7-9 PM tonight through Thursday morning

Strong Winds



Blowing/drifting snow, Minor wind damage and isolated power outages, especially RI & southeast MA.

Strongest gusts 30-40 mph eastern MA coast, except 40-60 mph over Cape/Islands

Tonight and Thursday

Coastal Flood



Minor nuisance flooding. Inundation of 1-2 feet of lowlying areas & vulnerable

coastal roads.

Eastern MA coast including Cape Cod, Martha's Vineyard and Nantucket

RI and southeast MA.

possibly as far north as

Boston

High tide early Thursday afternoon

Marine



Storm force wind gusts up to 50 knots across southern waters with Gale force wind gusts 40-45 knots elsewhere. Seas 12-17 feet.

MA and RI coastal waters

Tonight and Thursday

Flash Freeze



Slick roads due to rapidly falling temperatures. Any standing water or slush will freeze rapidly.

Mainly South Shore and into

Thursday mid to latemorning.







Summary of Greatest Impacts



<u>Heavy Snow</u> :	All of southern New England, esp along/south of Mass Pike			
None	Limited	Elevated	Significant	Extreme
			<u></u>	



Strong Winds:	Coastal MA a	nd RI		
None	Limited	Elevated	Significant	Extreme



Coastal Flood:	Eastern MA including Cape Cod and the Islands			
None	Limited Elevated Significant Extreme			



Marine: MA and RI coastal waters				
None	Limited	Elevated	Significant	Extreme
1				



Flash Freeze: Southeast MA and South Shore				
None	Limited	Flevated	Significant	Fytreme

office

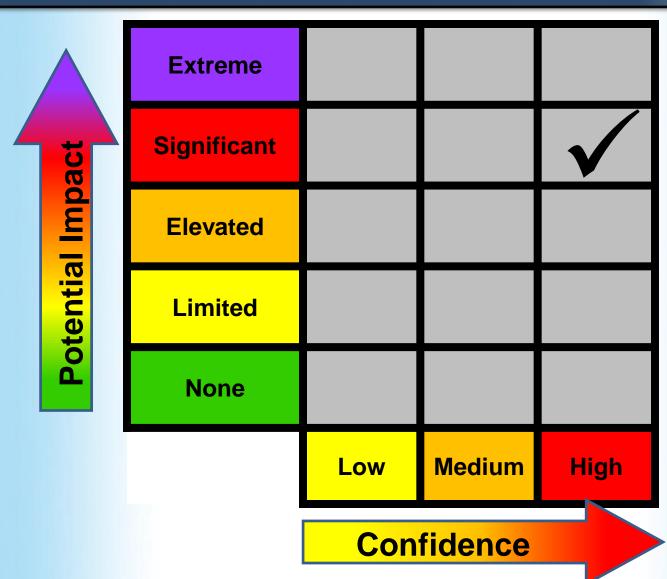








Winter Storm Threat and Confidence





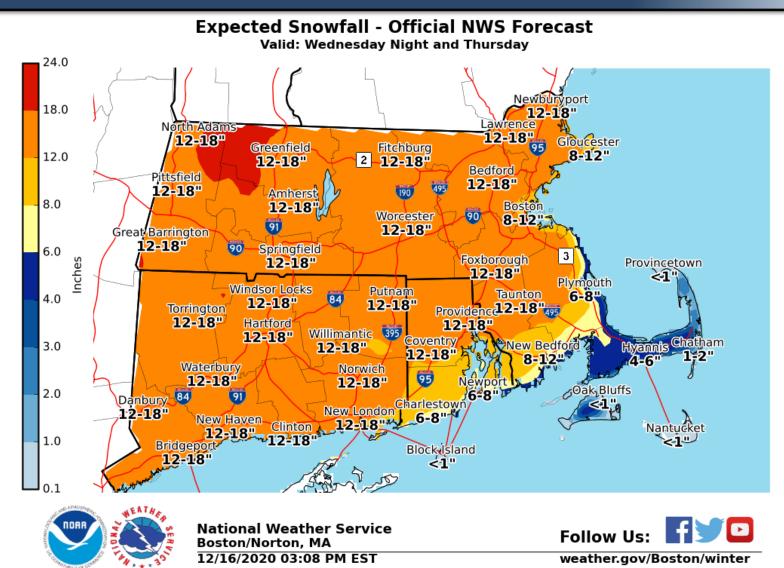








Forecast Storm Total Snowfall







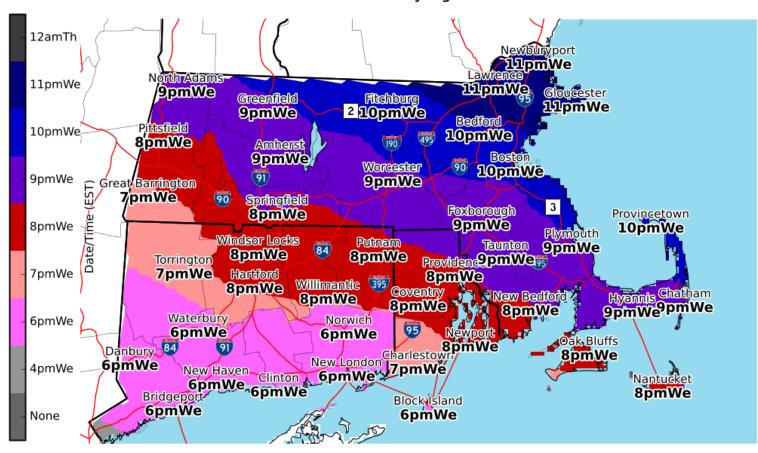






Onset of Winter Weather Threats

Precipitation Onset Time Valid: Wednesday Night





National Weather Service Boston/Norton, MA 12/16/2020 02:28 PM EST

Follow Us:



weather.gov/Boston



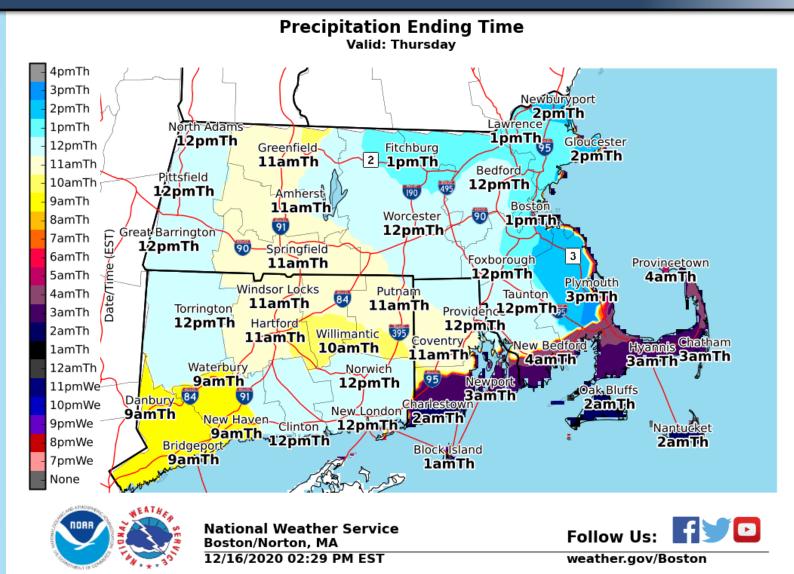








End Time of Winter Weather Threats





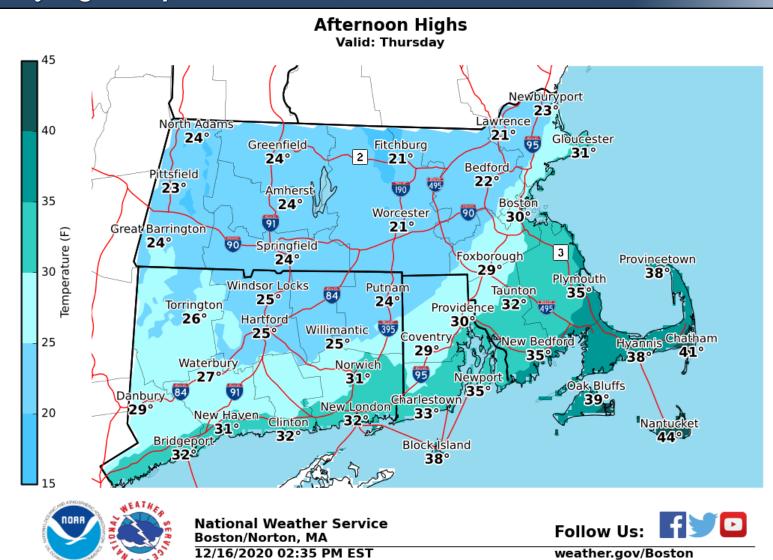








Thursday High Temperatures



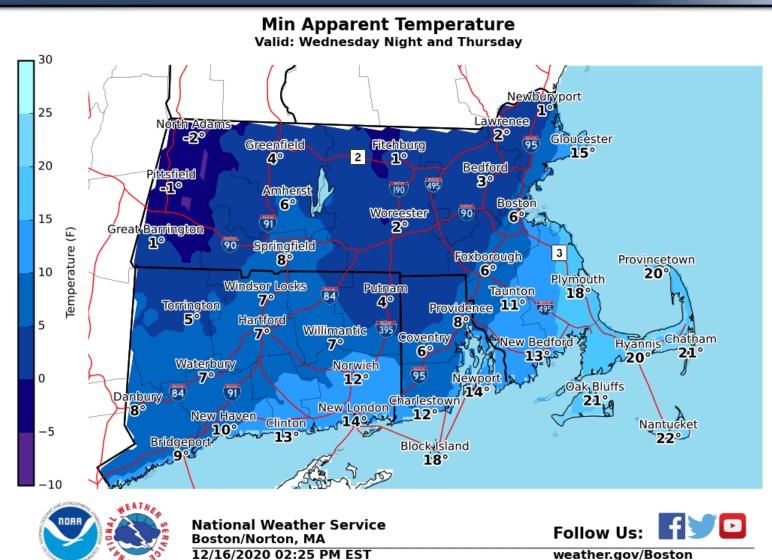






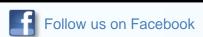


Thursday Minimum Wind Chills





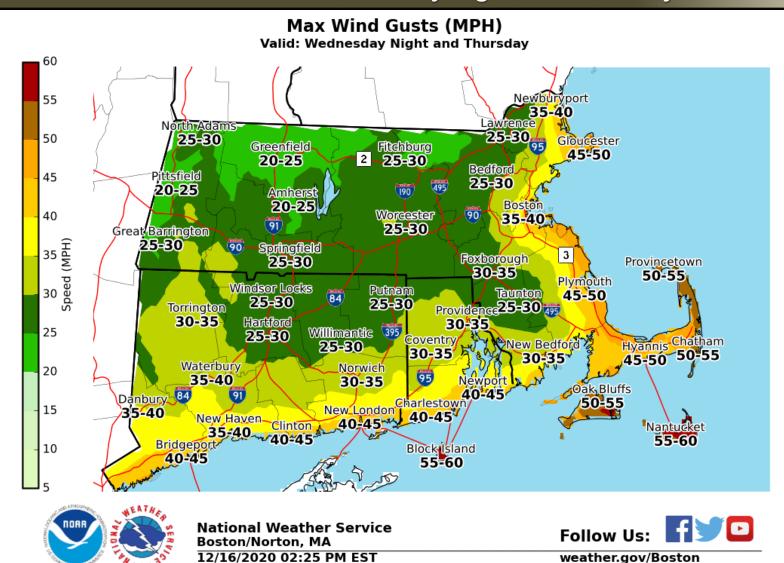








Forecast Maximum Wind Gusts: Wednesday Night and Thursday





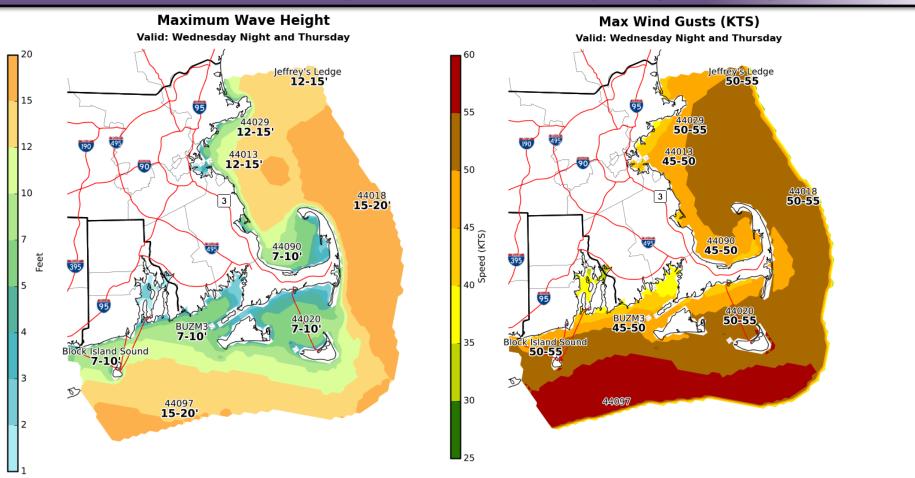








Forecast Maximum Wave Heights and Wind Gusts (knots): Wed Night/Thu





National Weather Service

12/16/2020 02:18 PM EST

Boston/Norton, MA



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National Weather Service

12/16/2020 02:23 PM EST

Boston/Norton, MA





Coastal Flooding – Coastal Flood Advisory Early Thursday Afternoon



Minor

Moderate

Major

Extreme

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.

<u>Very Worst Case (unlikely)</u>: Low-end Moderate Coastal Flooding

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

<u>Timing:</u> High tide early Thursday afternoon.

	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.











Threat Event Summary

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



Heavy snow and near-zero visibility, resulting in treacherous travel.



Minor coastal flooding.



Strong winds producing blowing/ drifting snow and minor damage.



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



Flash freeze for Southeast MA and RI Thurs AM.

✓ Where: All of Southern New England

✓ When: Tonight into Thursday











Contact and Next Briefing Information

Next Briefing

When: By 6 am Thu., December 17

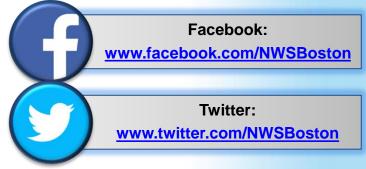
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Disclaimer: The information contained within this briefing is time-sensitive, do not use after 6 am, Thursday, December 17, 2020



