

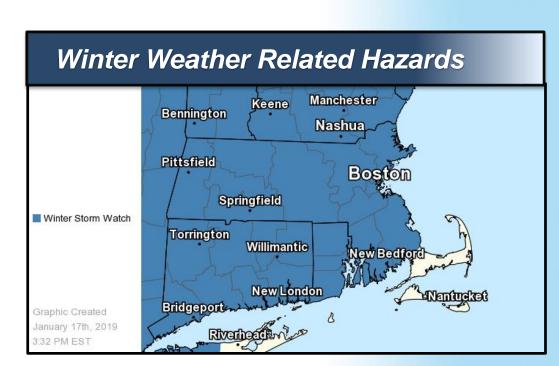


Multi-Faceted Winter Storm Saturday Night – Sunday Night

National Weather Service
Decision Support Briefing # 3
Thursday, January 17, 2019 3:32 PM

What Has Changed?

- ✓ Slightly lower snow totals due to more sleet/freezing rain.
- ✓ Winter Storm Watch expanded to include the rest of southern New England.
- ✓ Coastal Flood Watch issued for East Coastal MA for Sunday AM high tide.
- ✓ Gale Watch issued for the MA and RI coastal waters.













Main Dainte

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Hazard
Hazard

Impacts

Location

Timing

Heavy Wet Snow



Precipitation begins as heavy, wet snow. 2+ inch/hour rates. All of Southern New England, except the extreme south coast.

Greatest ice accumulations

Sunday for some. Some locations remain all snow through Sunday.

10 PM Saturday - Mid Morning

Freezing Rain/



A period of freezing rain and sleet with 0.25 to 0.5 inch ice accumulations possible.

across the central to northeast interior.

Sunday morning – afternoon.

Flash Freeze

Sleet



Temperatures drop rapidly below freezing. Rain changes back to sleet or freezing rain. Wet surfaces freeze. Bitter cold by Sunday night.

All of Southern New England

Strongest across Rhode Island

and Southeastern

Late Sunday afternoon -Sunday Night

Sunday morning - Sunday

afternoon.

Strong Winds

Coastal and

Inland



exacerbated by snow/ice. Minor to moderate coastal flooding Sun morning high tide. Some minor river flood

possible in RI.

Some power outages,

Massachusetts. Highest risk for coastal flooding is across the east coast. Low risk for the south

Coastal Flood Sunday Morning Inland Flood: Sunday -

Sunday night

Flooding **Weather Forecast Office Boston**, MA





coast.





Summary of Greatest Impacts



Heavy Wet Sno	<u>w</u> : Most	Most of Southern New England		
None	Limited	Elevated	Significant	Extreme



Freezing Rain/Sleet:		Especially Interior Southern New England		
None	Limited	Elevated	Significant	Extreme
1				



Flash Freeze:	All of Southern New England			
None	Limited Elevated Significant Extreme			
1				



Strong Winds:	Strongest Southeastern New England			
None	Limited Elevated Significant Extreme			
1				



Inland/Coastal Flooding: Inland = Interior Southern New England				
None	Limited	Elevated	Significant	Extreme



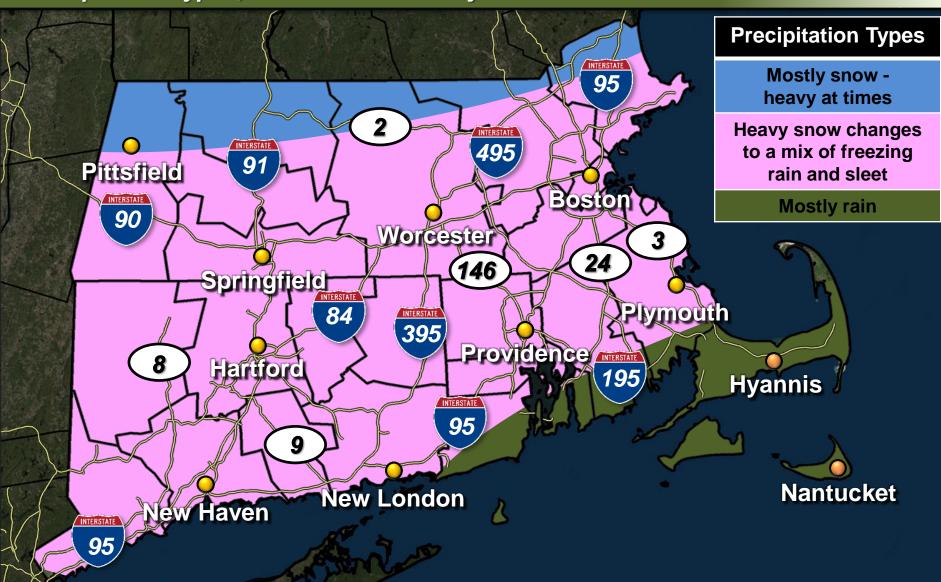








Precipitation types, note these are likely to shift...













Winter Weather Hazards

Marine / Coastal Hazards



Manchester Keene Bendington Nashua Pittefield Springfield Coastal Flood Watch Gale Watch Toutington Willimandie lew Bedford New Lenden Bridge Dorig raphic Created anuary 17th, 2019 32 PM EST

Wind Related Hazards

Winter Storm Watch

Graphic Created

Graphic Created

3:32 PM EST

January 17th, 2019

January 17th, 2019 3:32 PM EST

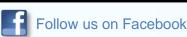
Flood Hazards











Graphic Created

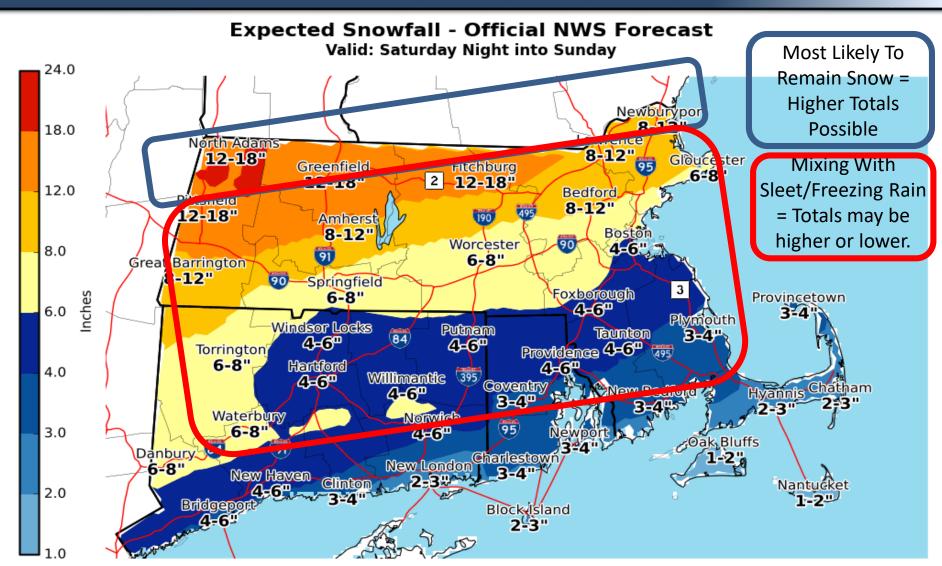
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January 17th, 2019



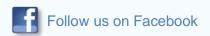


Forecast Storm Total Snowfall







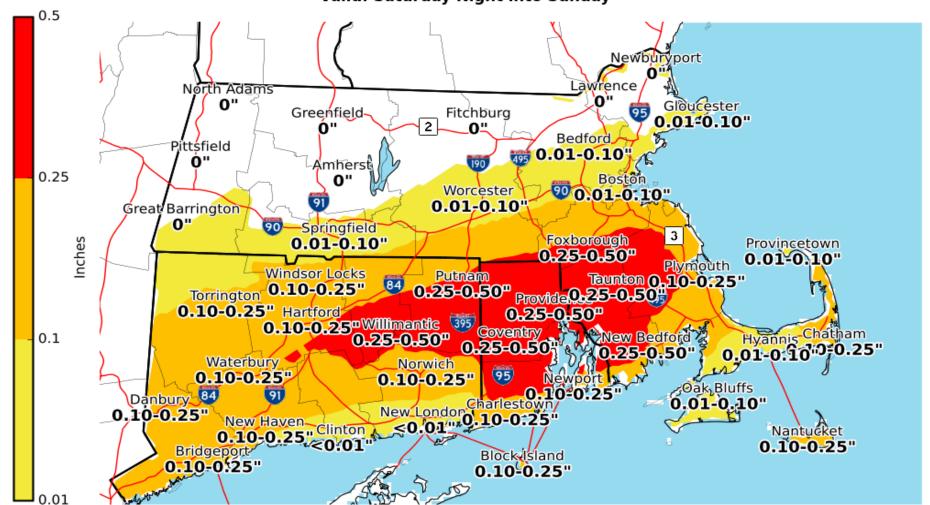






Forecast Storm Total Ice

Expected Icing - Official NWS Forecast Valid: Saturday Night into Sunday













Coastal Flooding – Surge / Inundation – Sunday Morning High Tide



Minor

Moderate

Major

Extreme

Minor Coastal Flooding

- Some inundation within the flood zone, especially for low-lying areas.
- Vulnerable shore roads with up to a foot of water inundation possible. May be flooding of a few vulnerable basements.
- Some beach erosion with heavy surf.

Timing

Impacts most likely with the Sunday morning high tide (about 10AM).

	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	To be safe, prepare for the potential of limited storm surge flooding impacts
Moderate	3 to 6 feet above ground	To be safe, earnestly prepare for the potential of significant storm surge flooding impacts
High	6 to 9 feet above ground	To be safe, aggressively prepare for the potential of significant storm surge flooding impacts
Extreme	> 9 feet above ground	To be safe, aggressively prepare for the potential of devastating to catastrophic storm surge flooding impacts



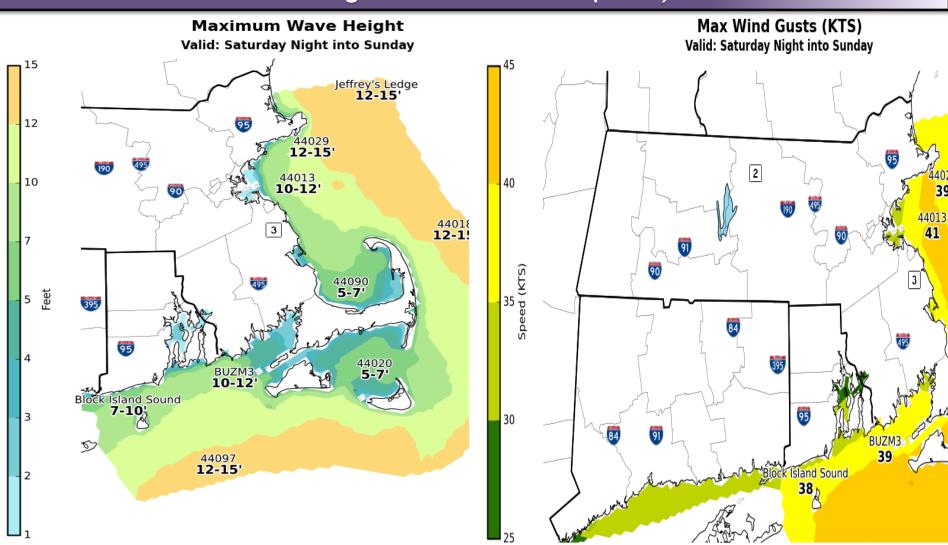








Forecast Maximum Wave Heights and Wind Gusts (in kts)

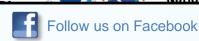




Weather Forecast Office

Boston, MA











Threat Event Summary

✓ <u>Confidence</u>: High confidence for a moderate-high impact event. Low confidence on exact details/timing.

✓ What:



Heavy wet snow with high snowfall rates.



Strong winds exacerbates power outage risk.



Freezing Rain/Sleet with some ice accumulation likely.



Minor to moderate coastal flooding possible with Sunday morning high tide Some inland flooding with heavy rain.



Flash Freeze late Sunday and Sunday night. Bitter cold follows.

✓ Where: All of Southern New England

When: Saturday Night – Sunday Night. Bitter cold follows early next

week.











Contact and Next Briefing Information

Next Briefing

When: 5 AM, Friday, January 18th

Method: via email











Disclaimer: The information contained within this briefing is time-sensitive, do not use after 5 AM, Friday, January 18, 2018



