



Multi-Faceted Winter Storm Tonight – Monday Morning

National Weather Service
Decision Support Briefing # 7
Saturday, January 19, 2019 4:21 PM

What Has Changed?

- Continued decrease in snowfall amounts towards N&W Massachusetts.
- ✓ Slight N&W shift in forecast heaviest icing.
- ✓ Winter Storm Warning for Hartford County CT.
- ✓ Flood Watch for S-coastal CT, Southeast RI, and Southeast MA.









Graphic Craimat Jamuary 19th, 2019.

4:22 PM EBT

NATIONAL WEATHER SERVICE



Winter Weather Hazards

Marine / Coastal Hazards



Manchester Keene Bearington Mashua. Pitteffeld Boston Springfield Coastal Flood Warning Gale Warning Coastal Flood Advisory Toutheton Small Craft Advisory Williamide Mantucket Bridgement nuary 19th, 2019 Riverhead THIPMEST

Wind Related Hazards

Flood Hazards











Flood Watch

LITPM EST





Hazard

Impacts

Heavy Wet

Snow (also sleet)



Weight of snow contributing to scattered tree damage, power outages, road closures; hazardous travel conditions on all surfaces

All of S New England except extreme S-coast New England

6-12" N&W MA 3-6" N CT / N RI / E&SE MA

Location

Timing 10 pm tonight – 7 am Sunday Fluffy to heavy wet snow

Freezing Rain



Weight of ice atop snow and/or sleet contributing as well to impacts highlighted above; hazardous travel conditions on all surfaces.

1-3" S-Coastal CT / RI / MA

From Northwest CT northeastward

across MA into Northeast MA.

Developing around midnight tonight

concluding into Sunday evening

Developing tonight continuing

transitioning N&W throughout

Snowfall rates 1-2"+ / hour

Strong

Winds



Scattered tree damage, power outages ... especially if trees are weighted by snow and/or ice which would exacerbate impacts outlined above

Southern RI & Southeast MA Higher terrain (i.e., Berkshires, Worcester, Tolland, Litchfield Hills) Watch N&W MA late Sunday into

Monday morn; winds + fallen snow

through Monday morning Blustery NW winds contributing to bitter cold wind chills Sunday night

Flash **Freeze**



Rapid freezing of wet surfaces, standing water, resulting in slick surfaces, hazardous travel; exposed vehicles having frozen closed doors

Greatest area of concern is Southeast New England Providence - Boston corridor and southeast ... especially for

the Monday AM commute

Minor coastal flooding along the

entire New England shoreline,

especially Cape Ann northward

Freshwater flooding / poor drainage

Early Sunday afternoon into Sunday Night Bitter cold, single digit temperatures

settling into the region

Flooding



With minor coastal flooding, vulnerable shore road inundation

Along with heavy rains, poor drainage issues especially for coastal communities

for S coastal New England

Especially during the Sunday morning high tide

Heaviest rain 1 am to 1 pm Sunday followed by very cold, Arctic air







Summary of Greatest Impacts



Heavy Wet Snow / Sleet: Especially Northern & Western MA and CT				
None	Limited	Elevated	Significant	Extreme
			1	



Freezing Rain:	Especially Interior Southern New England			
None	Limited	Elevated	Significant	Extreme
		4		



<u>Flash Freeze</u> :	Especially Southeast New England			
None	Limited	Elevated	Significant	Extreme
			1	



Strong Winds:	Especially Southern RI and Southeast MA			
None	Limited	Elevated	Significant	Extreme
1				



<u>Flooding</u> :	Coastal along all shores; Inland over Southeast New England			
None	Limited	Elevated	Significant	Extreme

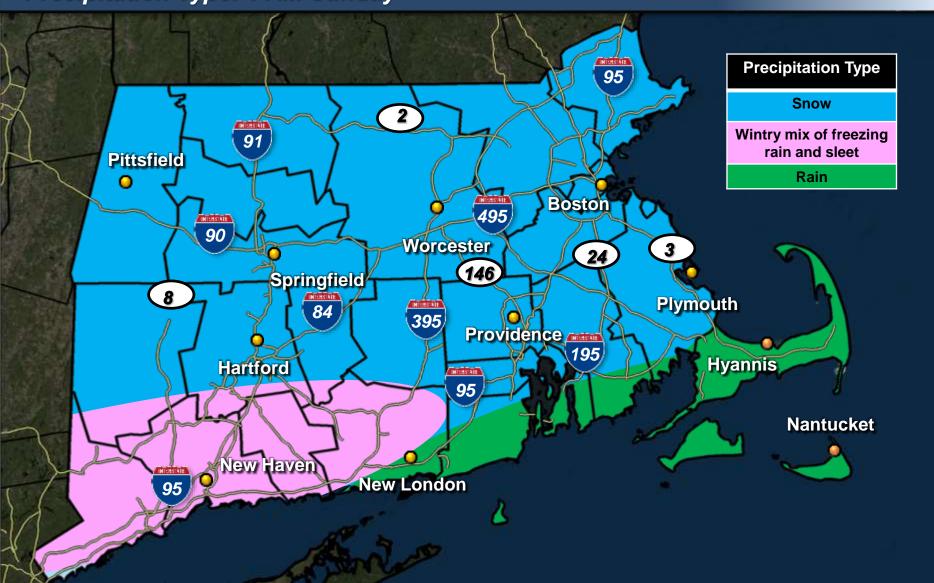








Precipitation Type: 1 AM Sunday



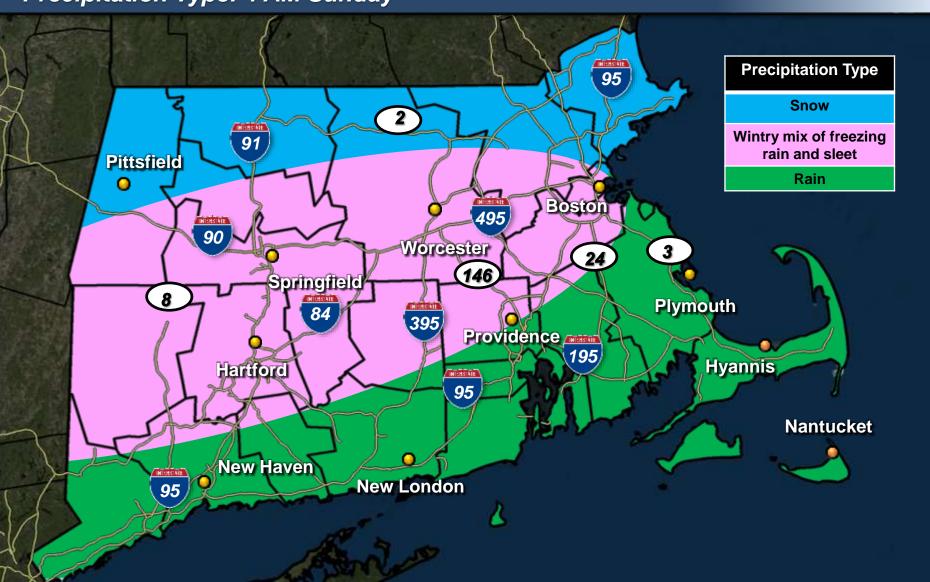








Precipitation Type: 4 AM Sunday



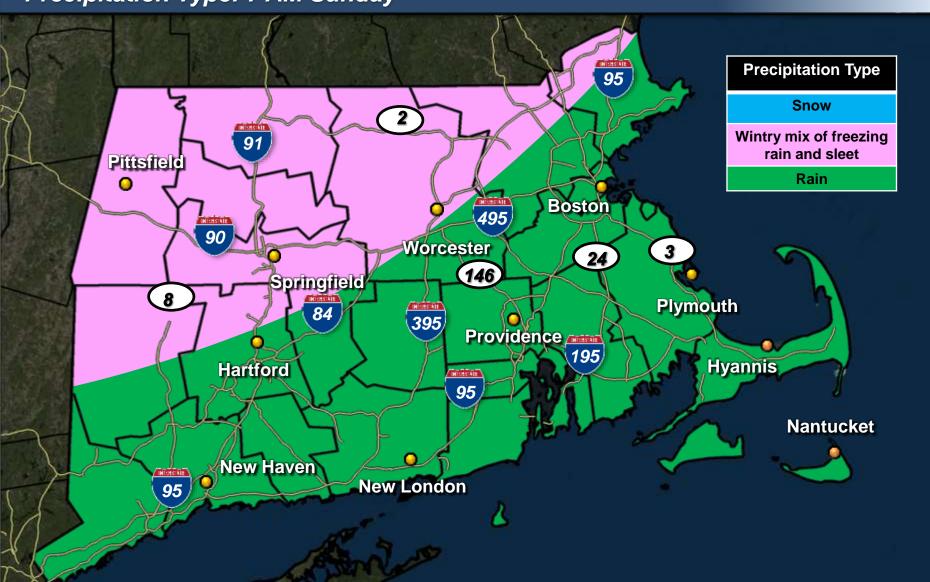








Precipitation Type: 7 AM Sunday



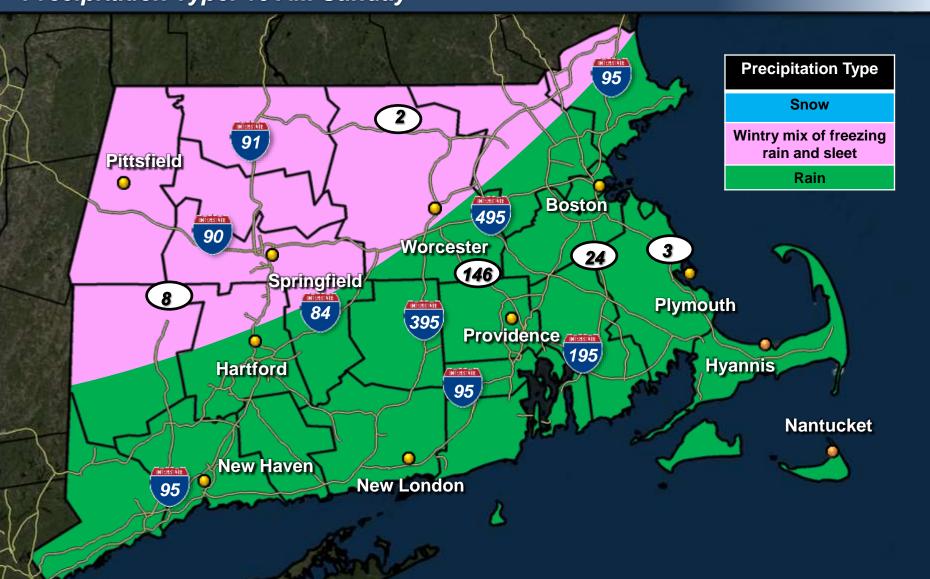








Precipitation Type: 10 AM Sunday



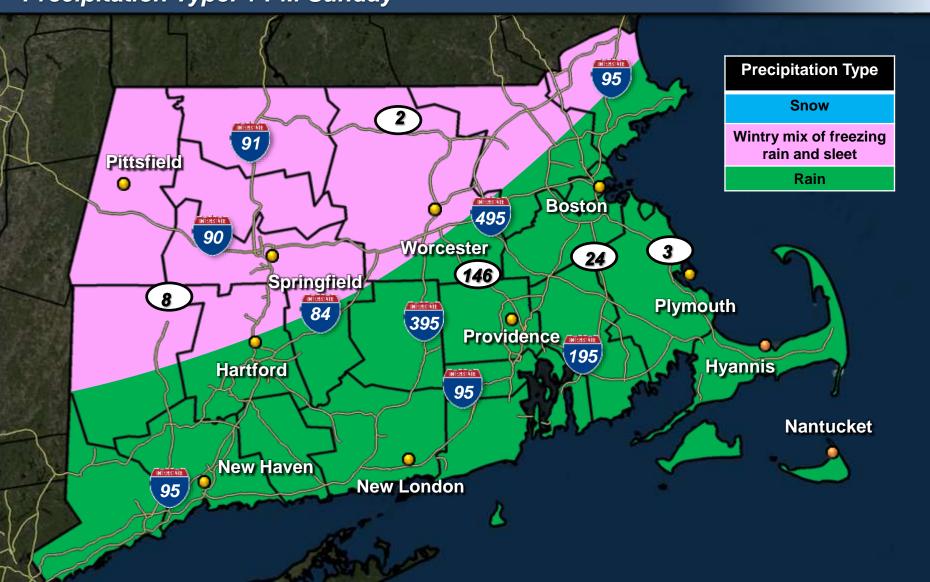








Precipitation Type: 1 PM Sunday



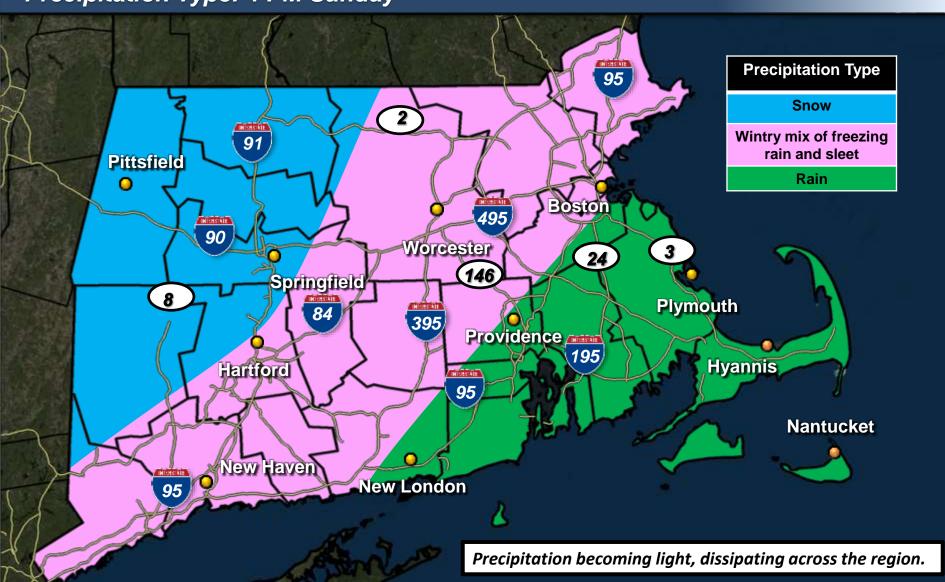








Precipitation Type: 4 PM Sunday



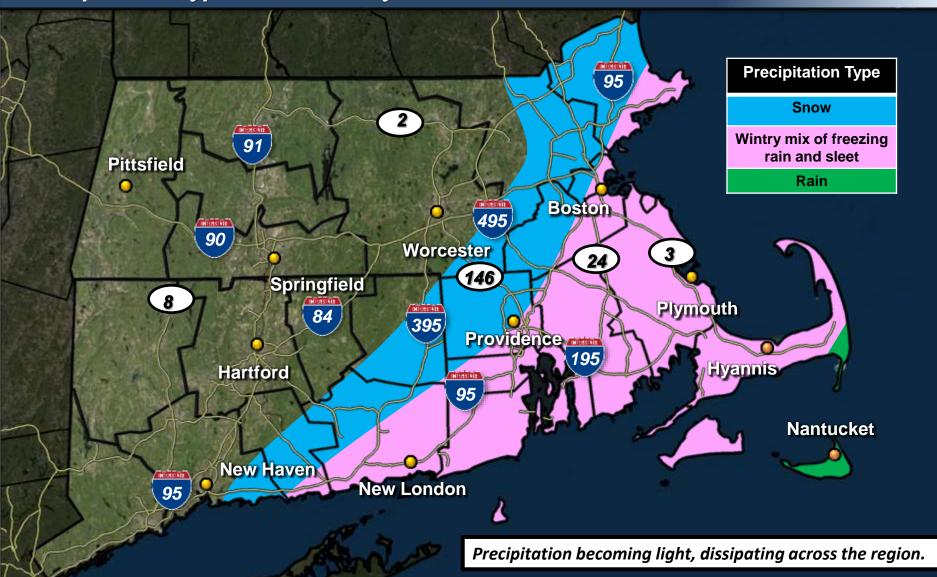








Precipitation Type: 7 PM Sunday





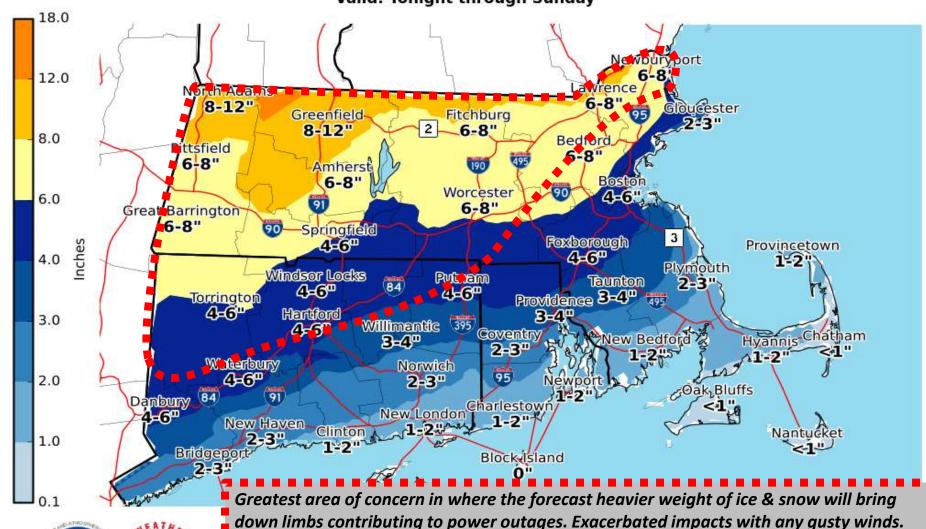






Forecast Storm Total Snowfall – Tonight through Sunday

Expected Snowfall - Official NWS Forecast Valid: Tonight through Sunday

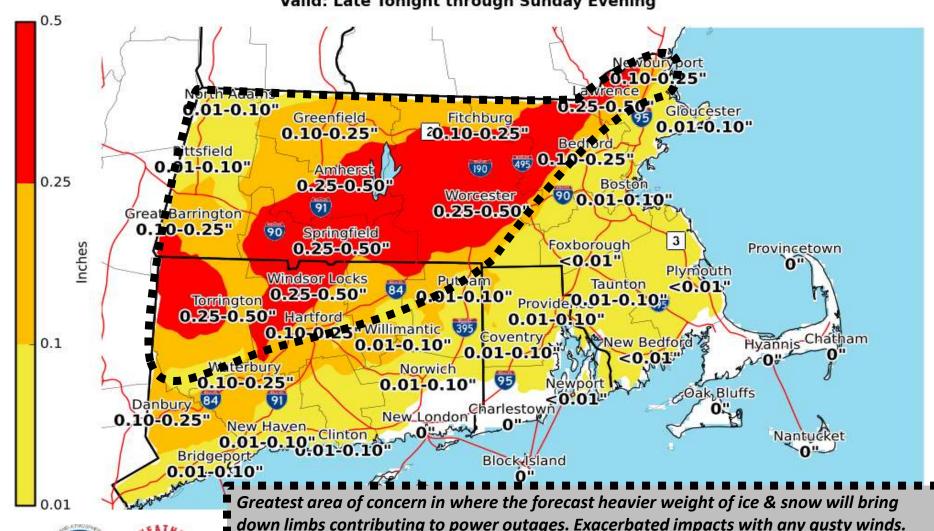






Forecast Storm Total Ice - Late Tonight through Sunday Evening

Expected Icing - Official NWS Forecast Valid: Late Tonight through Sunday Evening



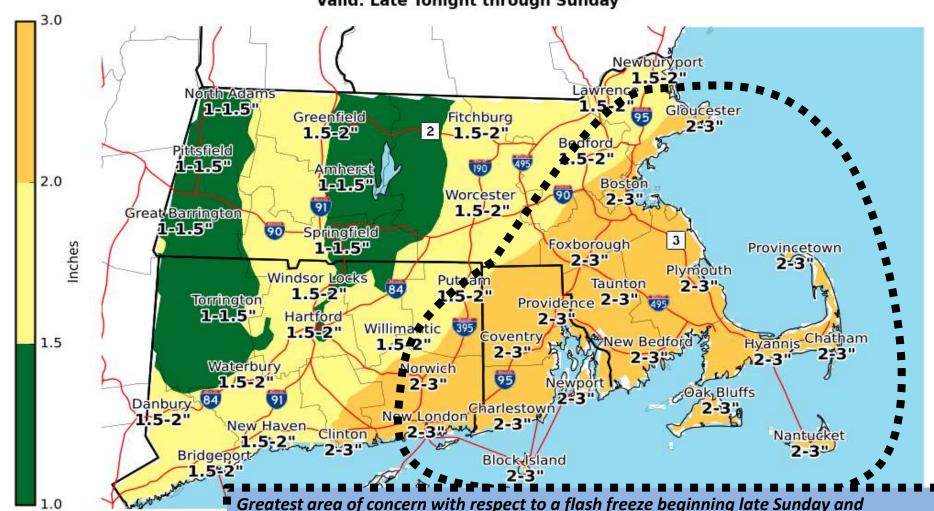






Forecast Storm Total Precipitation

Expected Rainfall - Official NWS Forecast Valid: Late Tonight through Sunday



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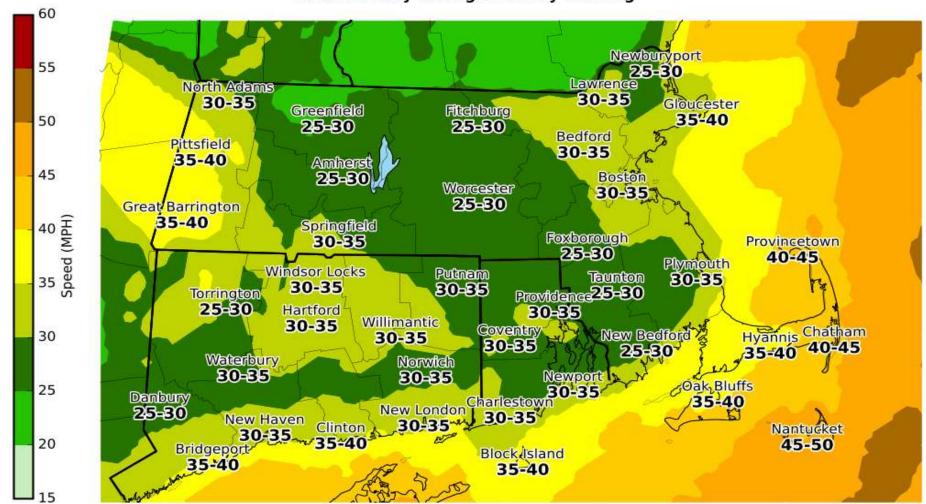
continuing through Sunday night as temperatures drop into the single digits.





Forecast Maximum Wind Gusts - Sunday through Monday Morning

Max Wind Gusts (MPH) Valid: Sunday through Monday Morning







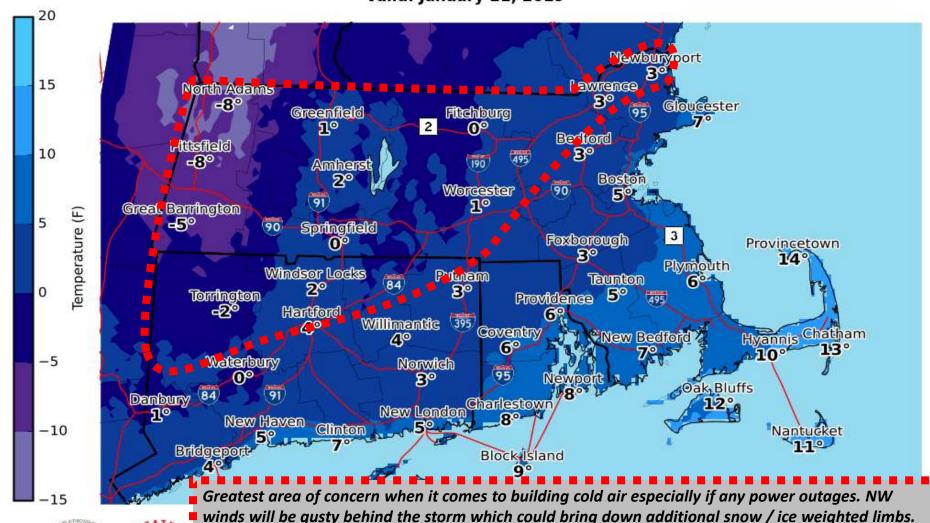






Forecast Low Temperatures

Monday Morning Lows Valid: January 21, 2019

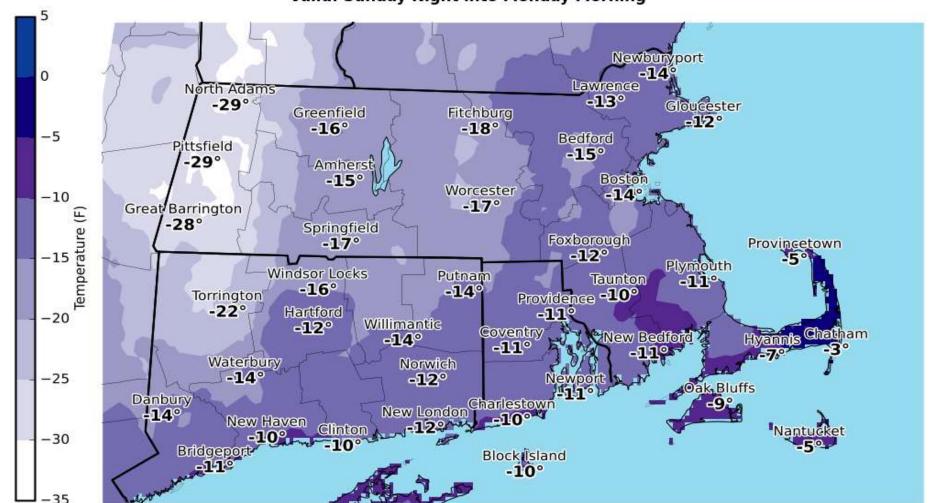






Forecast Minimum Wind Chills - Sunday Night into Monday Morning

Min Apparent Temperature Valid: Sunday Night into Monday Morning



EATH









Coastal Flooding - Surge / Inundation - Sunday Morning High Tide



Minor

Moderate

Major

Extreme

Minor Coastal Flooding

- Inundation of vulnerable shoreline roads.
- Greatest area of concern from Cape Ann northward.

Timing

 Sunday morning high tide (around 7 AM in Providence and around 10 AM in Boston).

In addition

With heavy rain forecast over S-coastal New England, concern for freshwater flooding as there will be poor drainage during the Sunday morning high tide cyle.

, , ,			
	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	



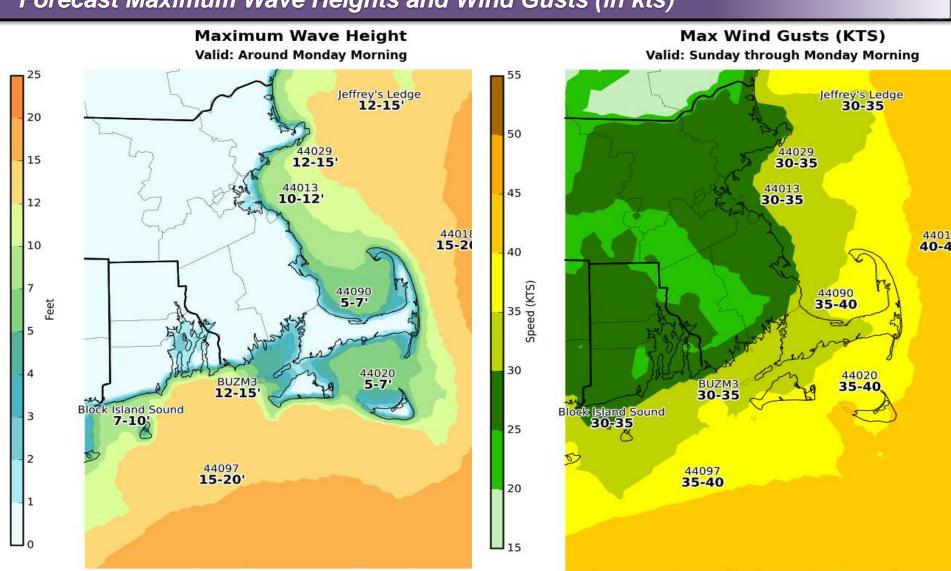








Forecast Maximum Wave Heights and Wind Gusts (in kts)









National Weather Service





Threat Event Summary

Confidence: High confidence for a moderate-high impact event. Moderate confidence on exact details / timing.

What:



Heavy wet snow and/or sleet.

- Weighing down tree limbs + gusty winds, contributing to scattered tree damage, power outages, and road closures ... especially N&W MA.
- Amounts up around a foot in N&W MA. Snowfall rates of 1-2"+ / hour forecast.
- Tonight into early Sunday.



Freezing rain.

- Any icing contributing to the weight on trees, exacerbating impacts outlined above.
- As much as half an inch of ice accretion forecast roughly W to E over central portions of S New England.
- Late tonight through Sunday.



Flooding.

- Minor coastal flooding with Sunday morning high tide, especially Cape Ann and northward.
- Inundation of vulnerable shoreline roadways.
- Poor drainage issues for S-coastal New England during high tides with heavy rain.





Winter impacts developing tonight, concluding into Sunday evening. Flooding issues especially around the Sunday morning high tide. Bitter cold ushers in Sunday evening into Monday morning.



Strong winds.

- Contributing to scattered down limbs, power outages, especially if weighted by snow, sleet and/or ice.
- Developing tonight, continuing through Monday morning.
- Generated dangerous wind chills Sunday night through Monday morning



Follow-up bitter cold.

- · Flash freeze icing up any residual water, encasing surfaces in ice.
- Blustery NW winds and temperatures falling into the single digits contributing to wind chills 15 to 25 degrees below zero.
- Late Sunday into Monday morning.



Marine.

- Gale Warnings on all waters through Monday morning (may need to be extended as late as Tuesday morning).
- Also the threat for moderate to heavy freezing spray beginning Sunday night going as late as Tuesday morning.









Contact and Next Briefing Information

Next Briefing ... UPDATE

When: 4 pm today (at the latest)

Method: via email









www.weather.gov/boston



Phone (public): 508-622-3250



Disclaimer: The information contained within this briefing is time-sensitive, do not use after 4 pm today as there will be an updated briefing issued



