

Ice Accretion/Flash Freeze The Main Concerns Into This Evening. Bitterly Cold Wind Chills Tonight Into Mon Morning.

National Weather Service

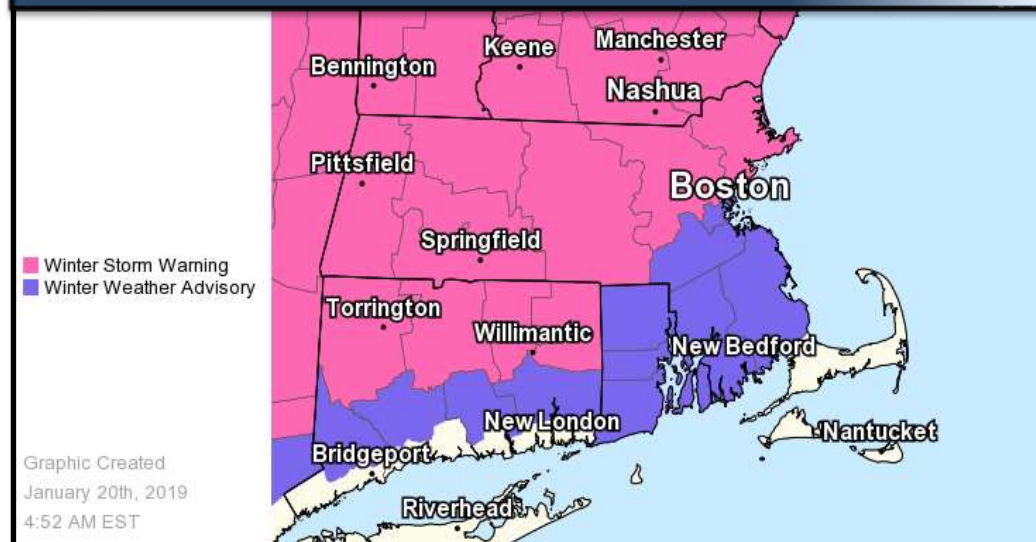
Decision Support Briefing # 8

Sunday, January 20, 2019 4:54 AM

What Has Changed?

- Winter Storm Warning expanded into Tolland and Windham counties CT. Mainly for the northern portions of those counties for ice on top of snow.
- Growing concern for ice accretion exceeding 0.25" and power outages northwest of the Boston to Providence corridor. Greatest risk across the CT River Valley into the Worcester Hills and interior northeast MA.
- Wind Chill Headlines Issued.

Winter Weather Related Hazards





Winter Weather Hazards



Marine / Coastal Hazards








Wind Related Hazards



Flood Hazards



Hazard	Impacts	Location	Timing
Snow And Sleet 	Snow covered roads, poor visibility, and hazardous travel.	Accumulating snow will pretty have changed to ice/rain across all of southern New England by 7 am.	Snow will be transitioning to sleet then rain along and southeast of the Boston to Providence corridor, while areas north and west change to sleet and freezing rain by 7 am.
Freezing Rain mixed With sleet. 	Potential for some downed trees and scattered power outages. Gusty winds into tonight may result in additional power outages, where ice/snow remain on trees.	The concern is northwest of the Boston to Providence corridor, especially from the CT River Valley into Central and interior Northeast MA.	This morning into the afternoon to the northwest of the Boston to Providence corridor. Rain changes to freezing rain along and southeast of the Boston to Providence corridor between noon and 5 pm.
Flash Freeze 	Rapid freezing of wet surfaces, standing water, resulting in slick surfaces, hazardous travel; exposed vehicles having frozen closed doors	Greatest concern is along the Providence – Boston corridor and southeast ... especially this afternoon and early evening.	Temperatures will fall below freezing between noon and 5 pm along and southeast of the Boston to Providence corridor. Quick drop in temps will result in a flash freeze.
Flooding 	With minor coastal flooding, vulnerable shore road inundation Along with heavy rains, poor drainage issues especially for coastal communities	Minor coastal flooding along the entire New England shoreline, especially Cape Ann northward Freshwater flooding / poor drainage for S coastal New England	This morning's high tide. Heaviest rain through lunch time, which may lead to some street flooding across southeast MA/RI.
Bitterly Cold Wind Chills 	Freezing rain and sleet exit the region between 4 and 8 pm this evening. Potential for frostbite on exposed skin in less than 30 minutes.	Wind chills of 15 to 25 below zero near and northwest of the Boston to Providence corridor. Wind chills as low as 30 below zero across the east slopes of the Berkshires.	Freezing rain and sleet exit the region between 4 and 8 pm. Tonight Into Monday Morning for the bitterly cold wind chills.

Summary of Greatest Impacts



Freezing Rain: Focus northwest of the Bos-Pvd corridor



Flash Freeze: Mainly along and southeast of Bos-Pvd Corridor



Bitterly Cold Wind chills:

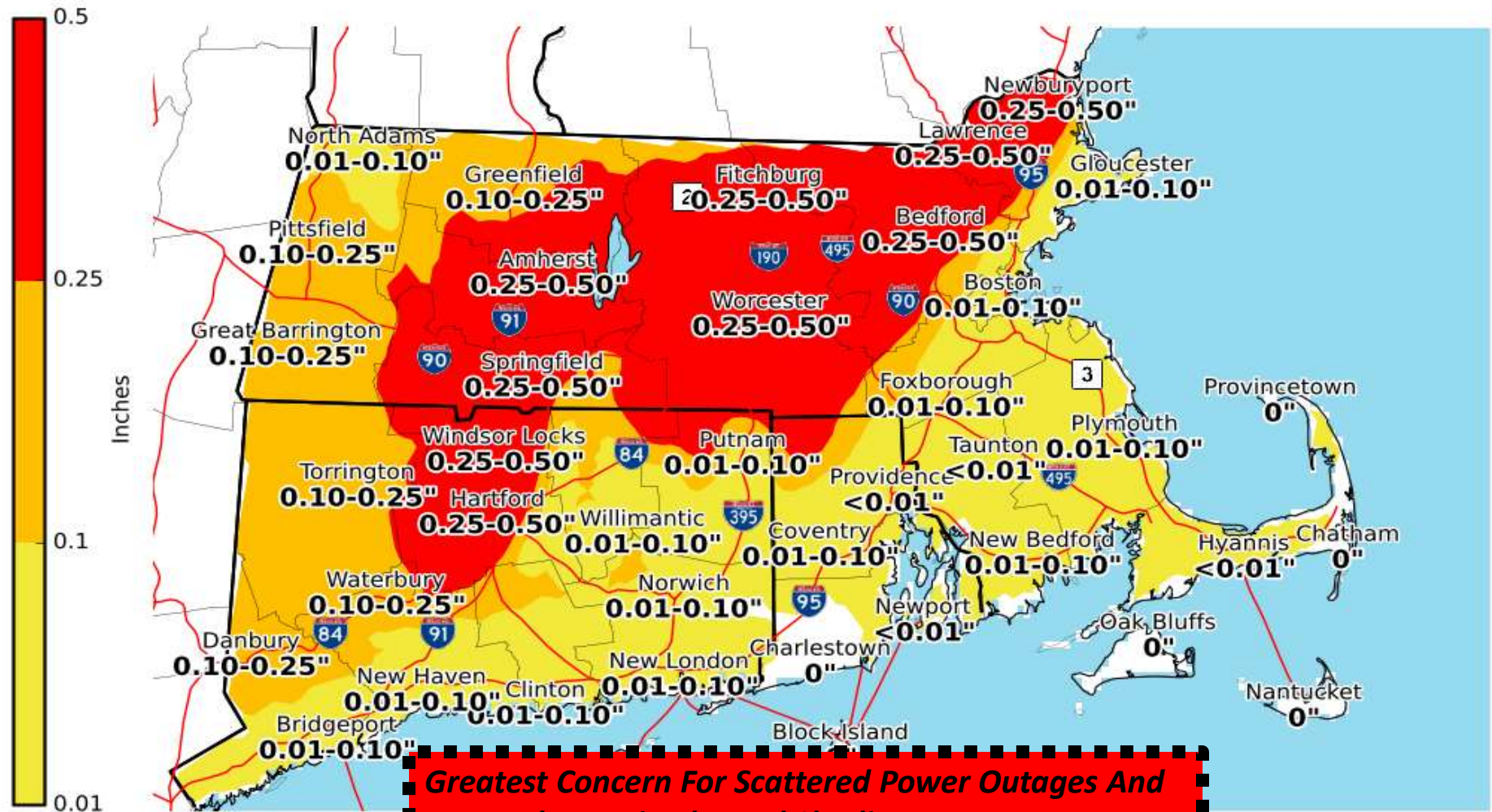


Flooding: Coastal along all shores; Inland over Southeast New England



Forecast Storm Total Ice – Though Early This Evening

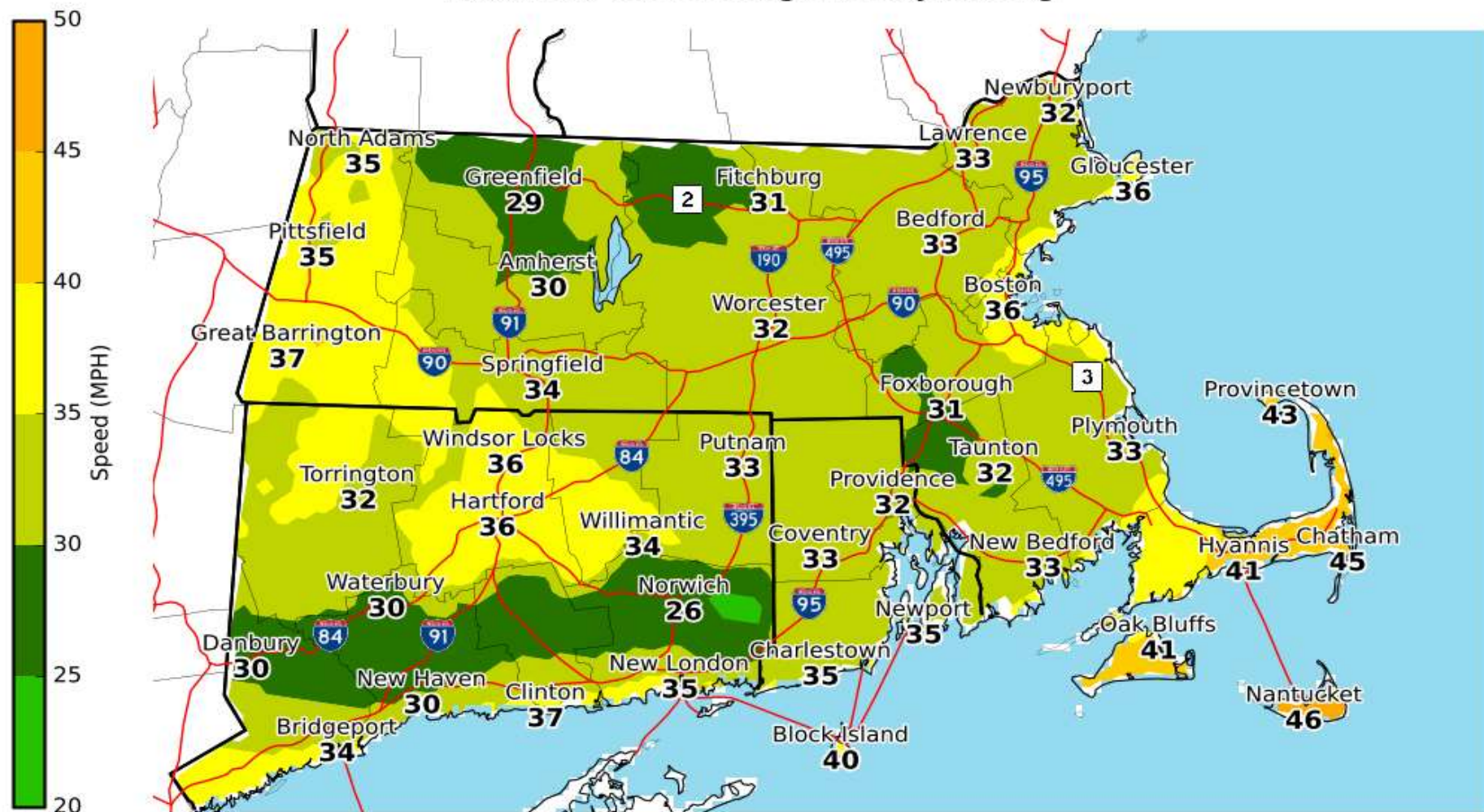
Expected Icing - Official NWS Forecast Valid: Through Late This Afternoon



**Greatest Concern For Scattered Power Outages And
Downed Trees in The Red Shading**

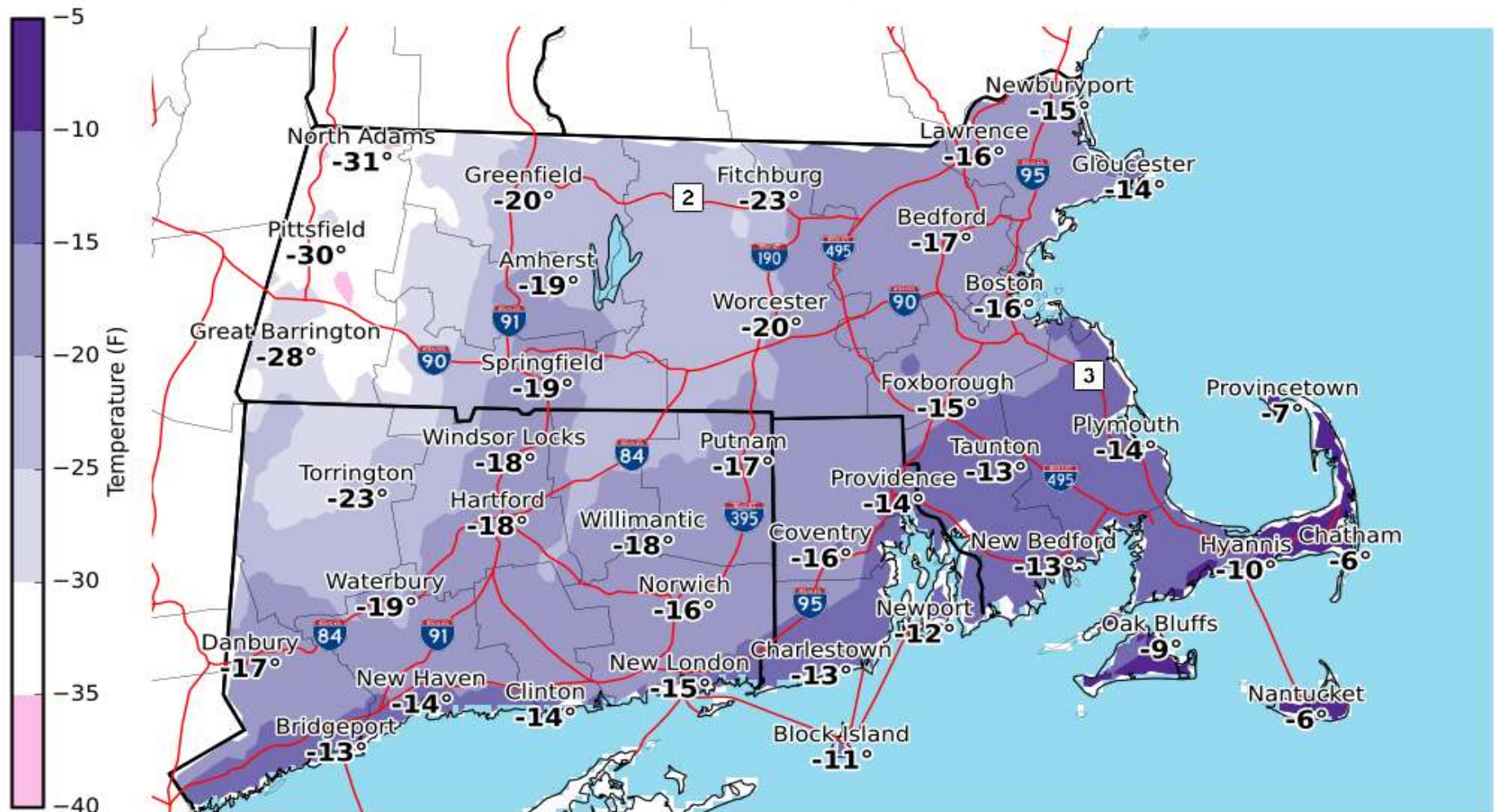
Forecast Maximum Wind Gusts – Through Monday Morning

Max Wind Gusts (MPH)
Valid: Wind Gusts Through Monday Morning

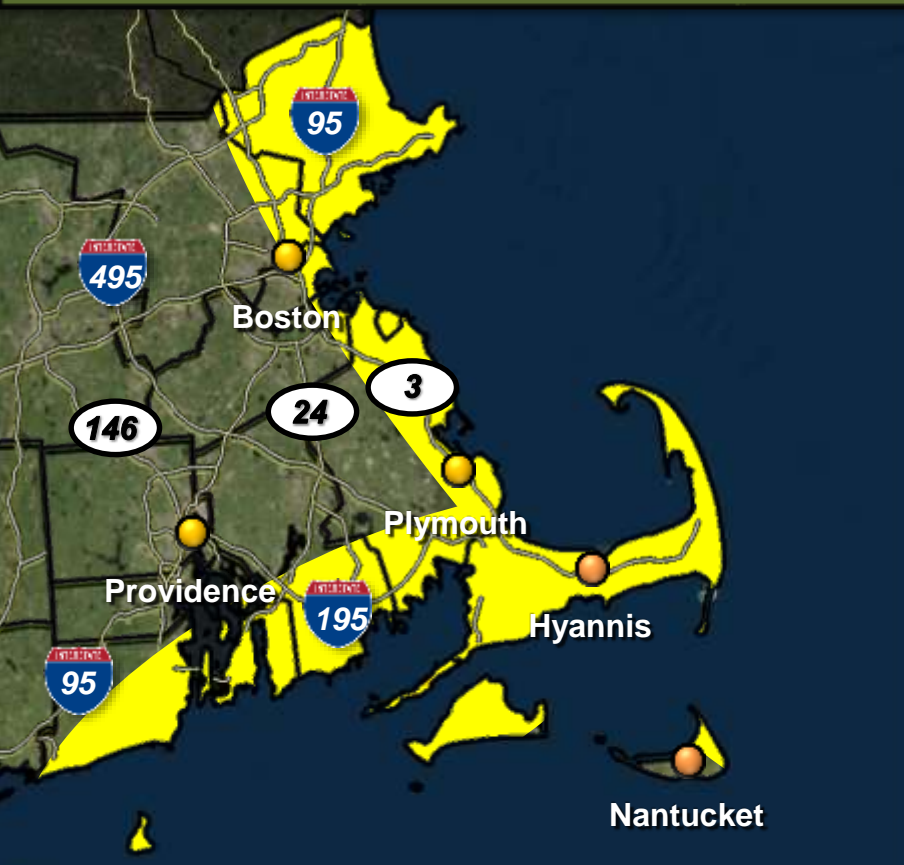


Forecast Minimum Wind Chills – Sunday Night into Monday Morning

Minimum Wind Chill Valid: Tonight Into Monday morning



Coastal Flooding – Surge / Inundation – This Morning High Tide



Minor Coastal Flooding

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

Timing

- This morning's 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 this morning's high tide cycle.

None
Minor
Moderate
Major
Extreme

	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



Excessive Cold Headlines

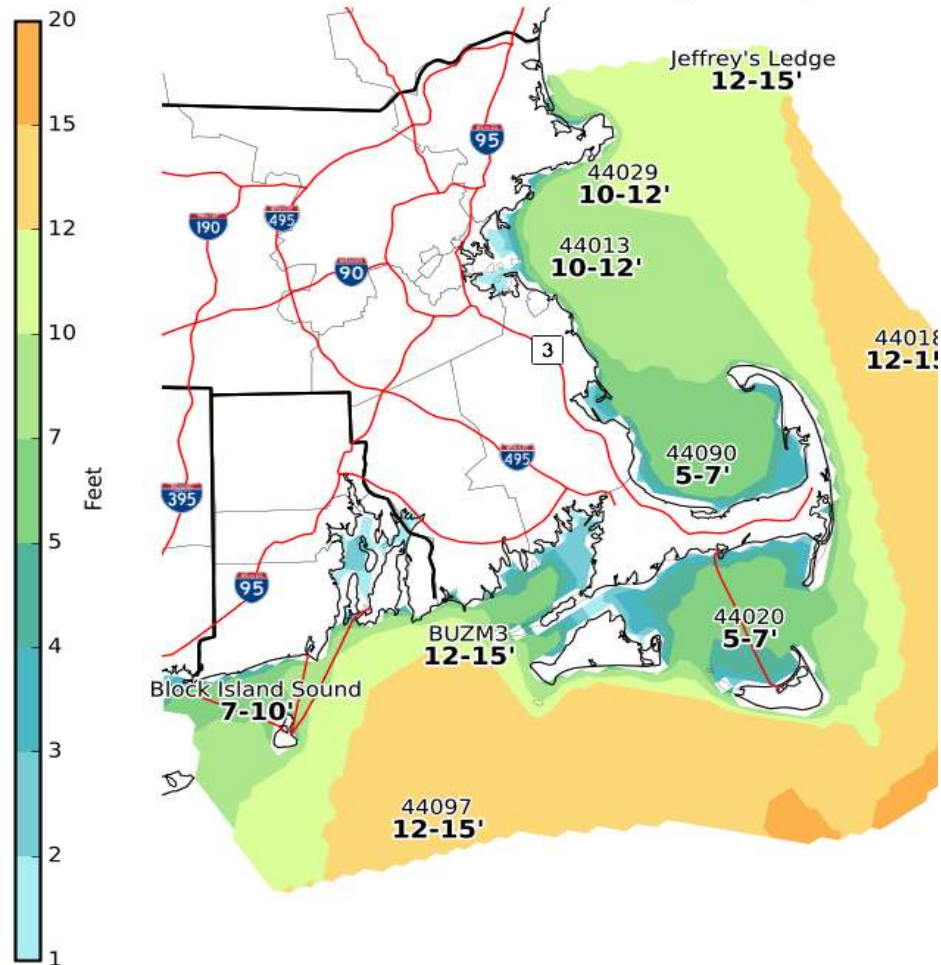


Wind Chill Headlines Tonight Into Monday Morning
Dangerously Cold Wind Chills Dropping to Between 15 and 30 Below Zero

Forecast Maximum Wave Heights and Wind Gusts (in kts)

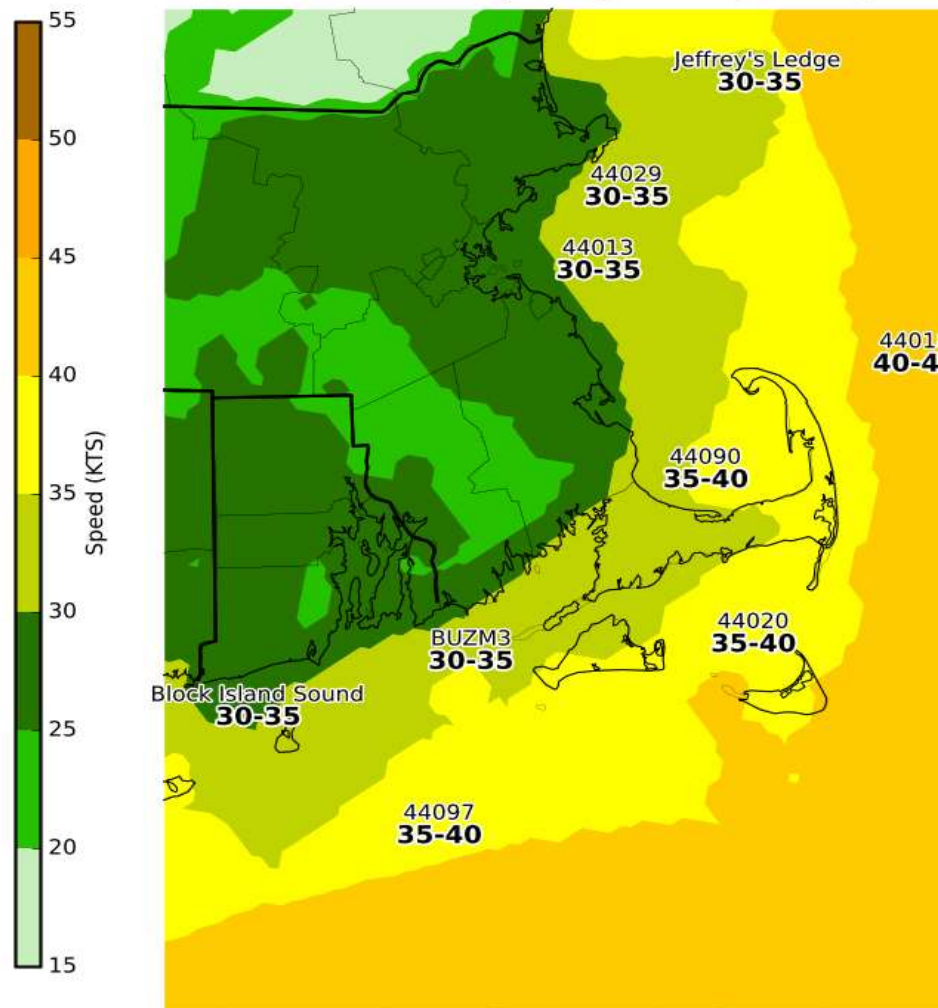
Maximum Wave Height

Valid: Through Monday Morning



Max Wind Gusts (KTS)

Valid: Sunday through Monday Morning



Threat Event Summary

- ✓ **Confidence:** High confidence in freezing rain/sleet, flash freeze, and bitterly cold wind chills. Lower confidence on exact freezing rain/ice accretion amounts and extent of power outage threat. Also, specific timing of flash freeze uncertain.

- ✓ **What:**



Heavy snow

- Bulk of accumulating snow ends by 7 am.
- Sleet and especially freezing rain the greatest concern this morning and afternoon northwest of Boston to Providence corridor.



Bitterly Cold Wind Chills.

- Bitterly cold wind chills of 15 to 30 below zero tonight into Monday morning.
- Gusty winds may result in scattered power outages across interior southern New England into tonight, where snow and ice remain on trees.



Freezing rain with some sleet

- Potential for downed trees/scattered power outages northwest of Bos-Pvd corridor.
- Greatest concern CT River Valley into the Worcester Hills and interior northeast MA.
- Freezing rain and sleet ends between 4 and 8 pm this evening.



Flash Freeze.

- Flash freeze occurs along and southeast of the Boston to Providence corridor between noon and 5 pm.



Flooding.

- Minor coastal flooding with the 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.



Marine.

- Gale Warnings on all waters through Monday morning (may need to be extended as late as Tuesday morning).
- Moderate to locally heavy freezing spray later tonight through Monday night.

- ✓ **Where:** All of Southern New England.

- ✓ **When:** Heaviest icing threat this morning, but precipitation does not come to a complete end until 4 and 8 pm this eve. Flash Freeze between noon and 5 pm along and southeast of the Boston to Providence corridor.

Contact and Next Briefing Information

Next Briefing ... UPDATE

When: 5 pm today (at the latest)

Method: via email



www.weather.gov/boston



Phone (public):
508-622-3250



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Disclaimer: The information contained within this briefing is time-sensitive, do not use after 5 pm today as there will be an updated briefing issued