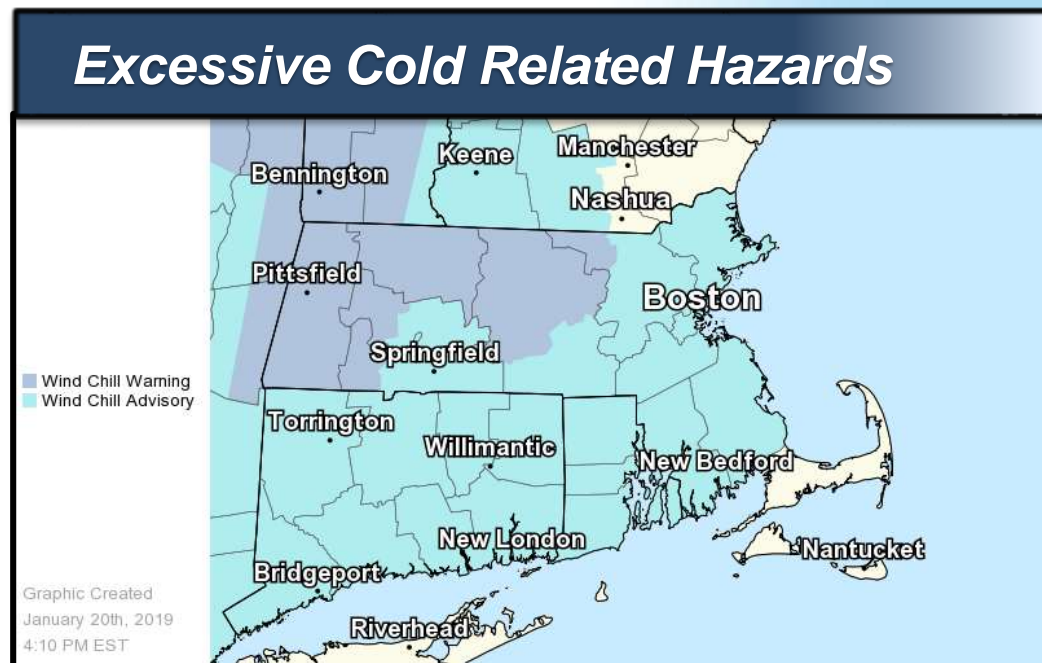


# Bitter Cold Conditions & Flash Freeze Now into Monday Morning

**National Weather Service**  
**Decision Support Briefing # 9**  
**Sunday, January 20, 2019 4:10 PM**

## What Has Changed?

- Winter Weather Headlines either canceled or lowered to advisory
- Wind Chill Headlines expanded into Southeast New England
- Coastal Flood Statement issued for E-coastal MA





## Winter Weather Hazards



## Marine / Coastal Hazards







## Wind Related Hazards



## Flood Hazards



Hazard	Impacts	Location	Timing
<b>Flash Freeze</b> 	<p>Rapid freezing of wet surfaces, standing water, resulting in slick surfaces, hazardous travel; exposed vehicles having frozen closed doors</p>	<p>Greatest concern is along the <b>Providence – Boston corridor and southeast ... especially this afternoon into early evening.</b></p>	<p><b>Evening:</b> BOS – PVD ... Teens S&amp;E BOS – PVD ... 20s Cape &amp; Islands ... Above freezing</p> <p><b>Midnight:</b> BOS – PVD ... Single digits S&amp;E BOS – PVD ... Teens Cape &amp; Islands ... Low 20s</p>
<b>Bitter Cold Wind Chills</b> 	<p>Potential for hypothermia, along with frostbite on exposed skin, in less than 30 minutes.</p>	<p>Wind chills of -15 to -25°F near and northwest of the Boston to Providence corridor.</p> <p>Wind chills as low as -30°F across the Berkshires.</p>	<p>Developing this evening. Height of the coldest wind chills Monday morning.</p> <p>Some improvement, however still bitterly cold, Monday through Tuesday morning with widespread wind chills around -10 to -15°F</p>
<b>Gusty NW Winds</b> 	<p>Potential for some downed tree limbs and isolated power outages, especially where ice has accumulated on trees.</p>	<p><b>Hartford CT to Norwood MA</b> where observed ice accretion on trees is the greatest</p>	<p>Through Monday</p>
<b>Moderate to Heavy Freezing Spray (marine)</b> 	<p>Hazardous wind and wave conditions along with ice accretion for experienced and properly equipped vessels</p>	<p><b>All Waters Including inner harbors &amp; bays</b></p>	<p>Developing tonight and continuing through Tuesday morning</p>

# Summary of Greatest Impacts



## Re-Freezing Surfaces:

**Around and S&E of Boston - Providence**

None	Limited	Elevated	Significant	Extreme
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## Bitterly Cold Wind Chills:

**All Southern New England**

None	Limited	Elevated	Significant	Extreme
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## Downed Limbs / Isolated Power Outages:

**Hartford CT to Norwood MA**

None	Limited	Elevated	Significant	Extreme
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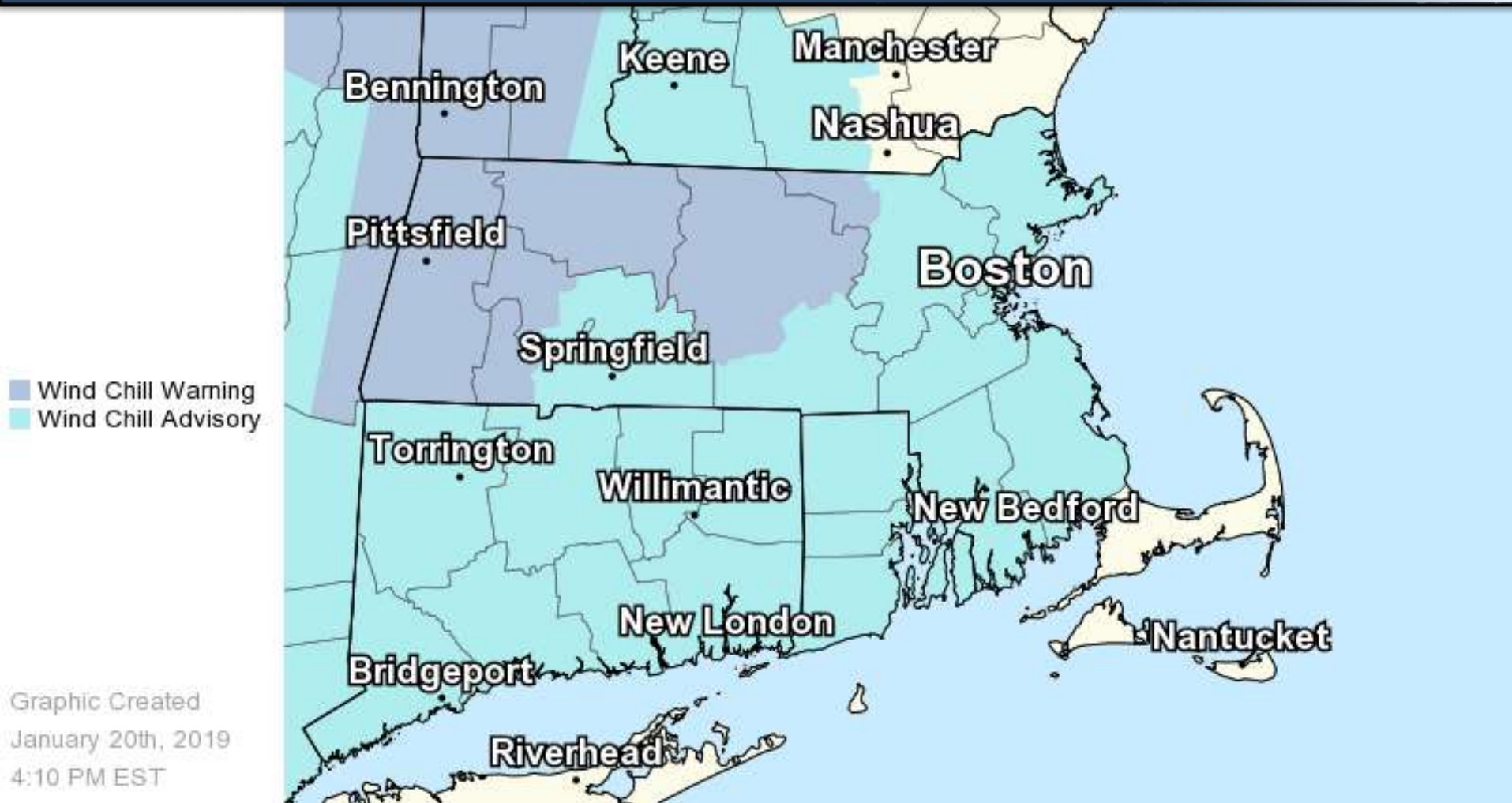
## Moderate to Heavy Freezing Spray:

**All Waters**

None	Limited	Elevated	Significant	Extreme
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## *Excessive Cold Headlines – Through Monday at the latest*

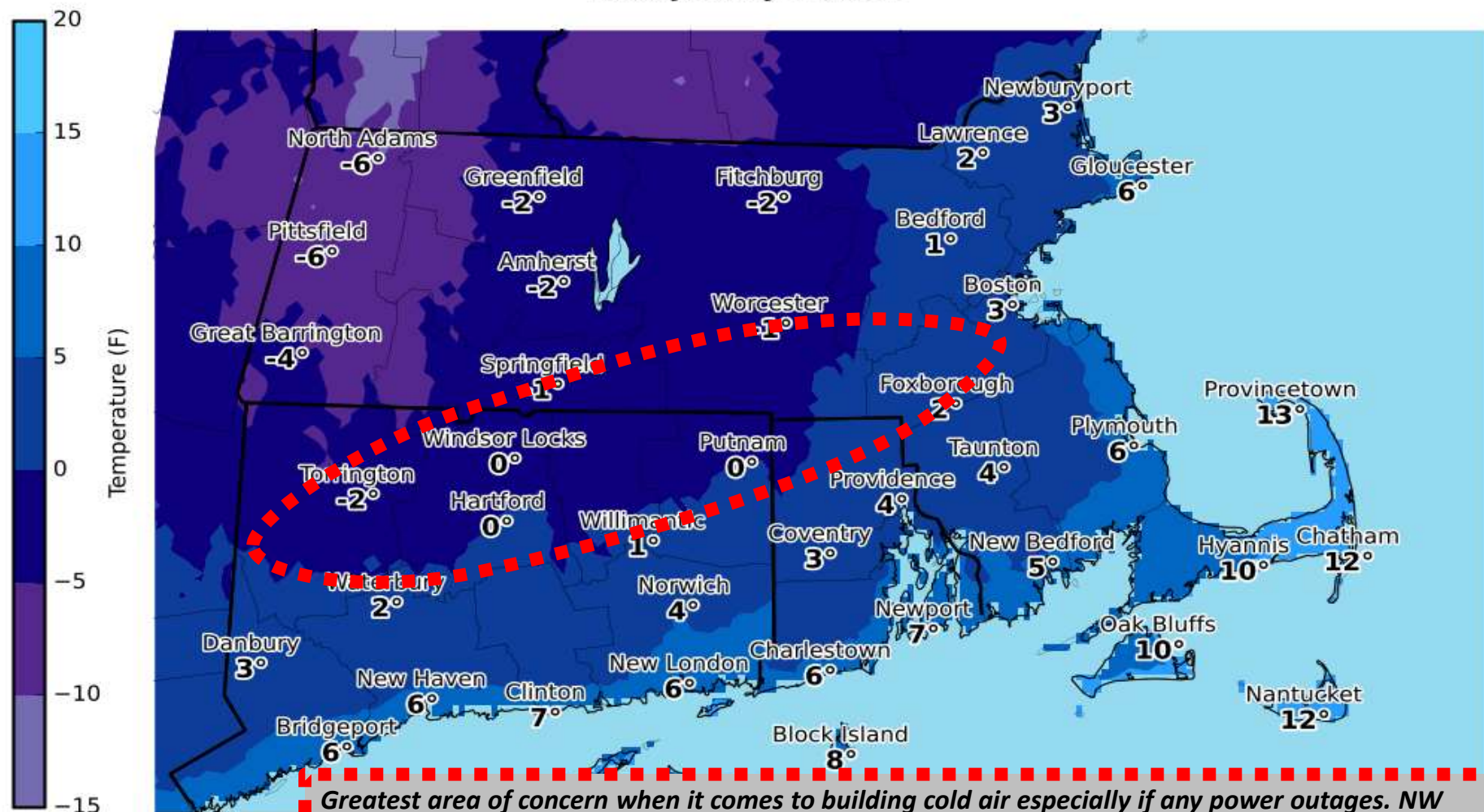


**Wind Chill Headlines through Monday Morning**  
**Dangerously Cold Wind Chills Dropping to Between 15 and 30 Below Zero**

## Forecast Low Temperatures – Monday Morning

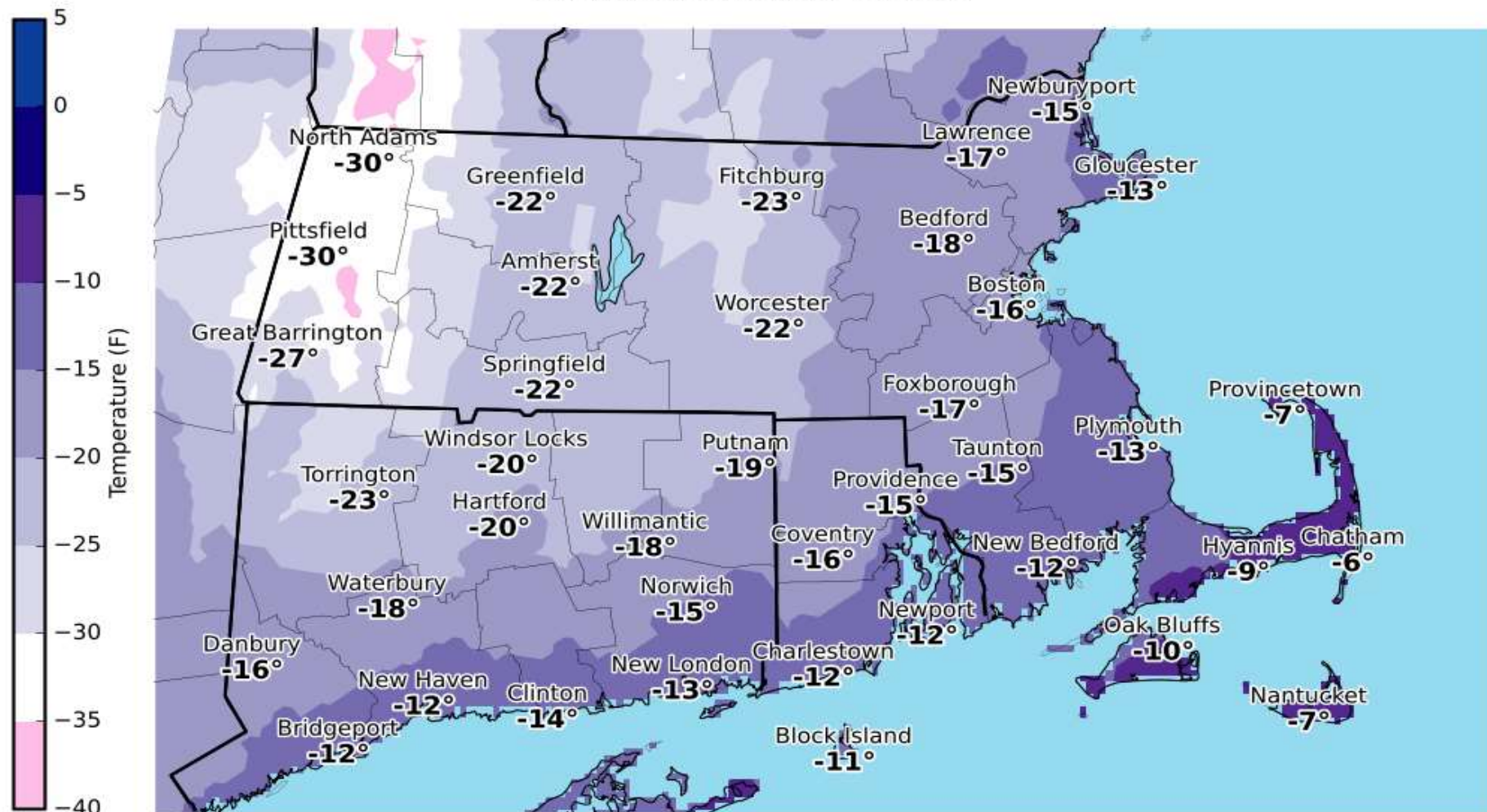
### Monday Morning Lows

Valid: January 21, 2019



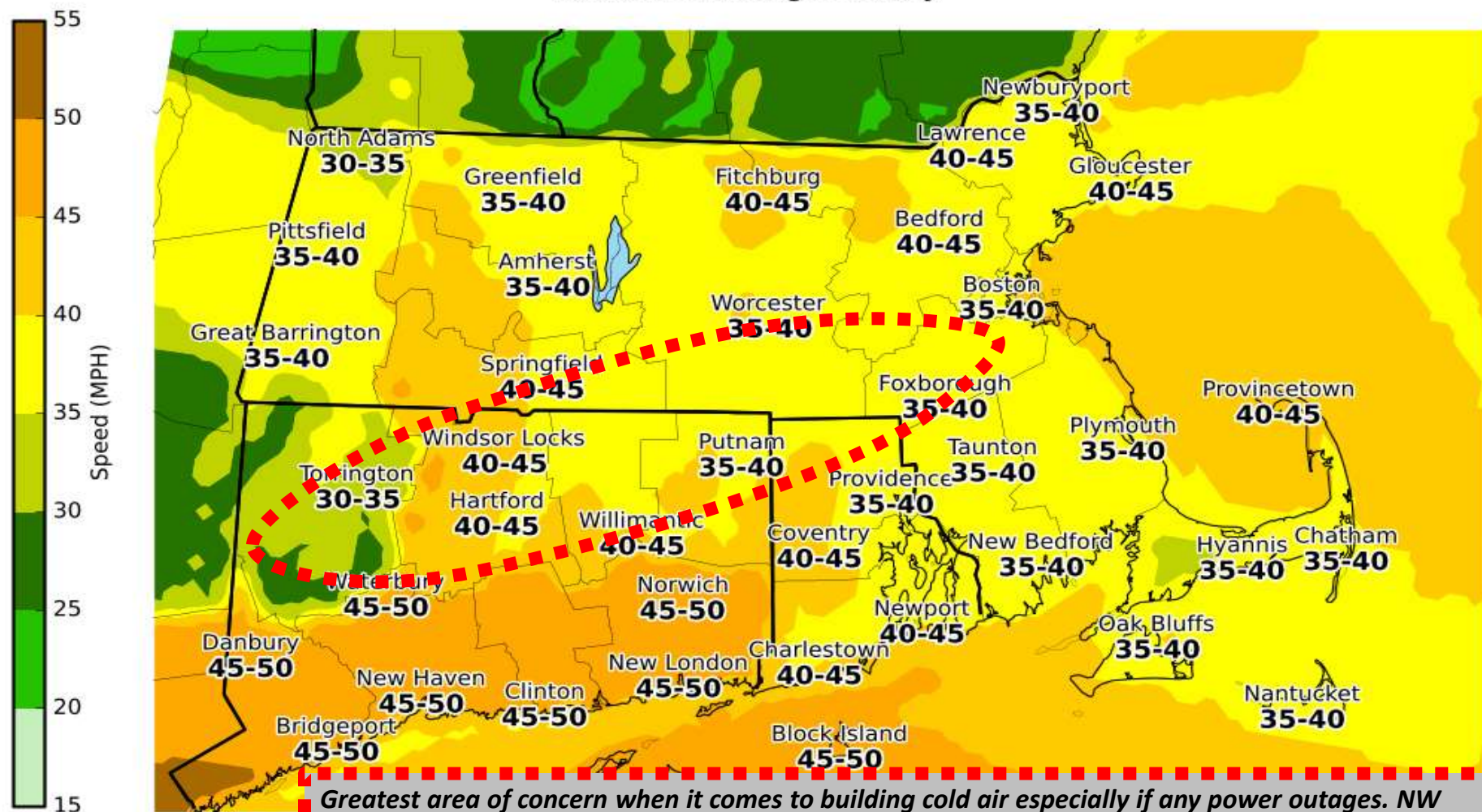
## Forecast Minimum Wind Chills – Tonight into Monday Morning

### Lowest Wind Chills Valid: Around Monday Morning



## Forecast Maximum Wind Gusts – 4 pm Through Monday Morning

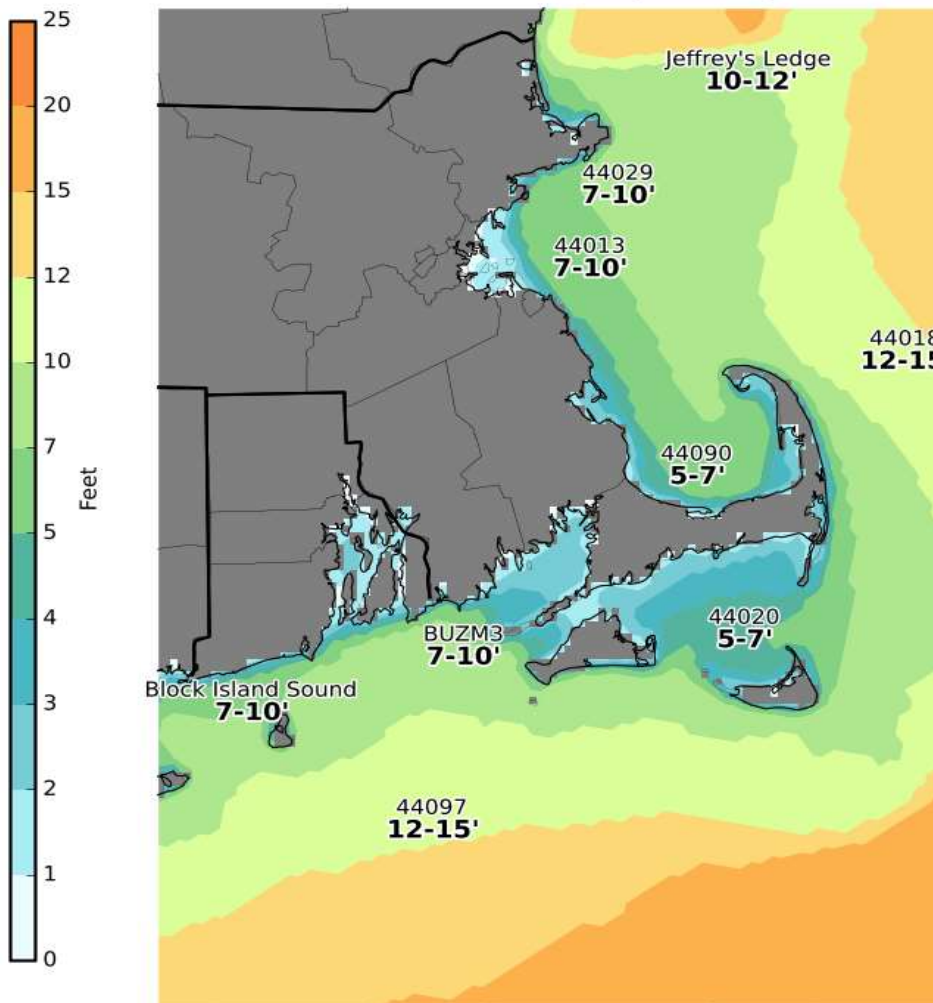
### Max Wind Gusts (MPH) Valid: Now through Monday



## Forecast Maximum Wave Heights and Wind Gusts (in kts) – Through Monday

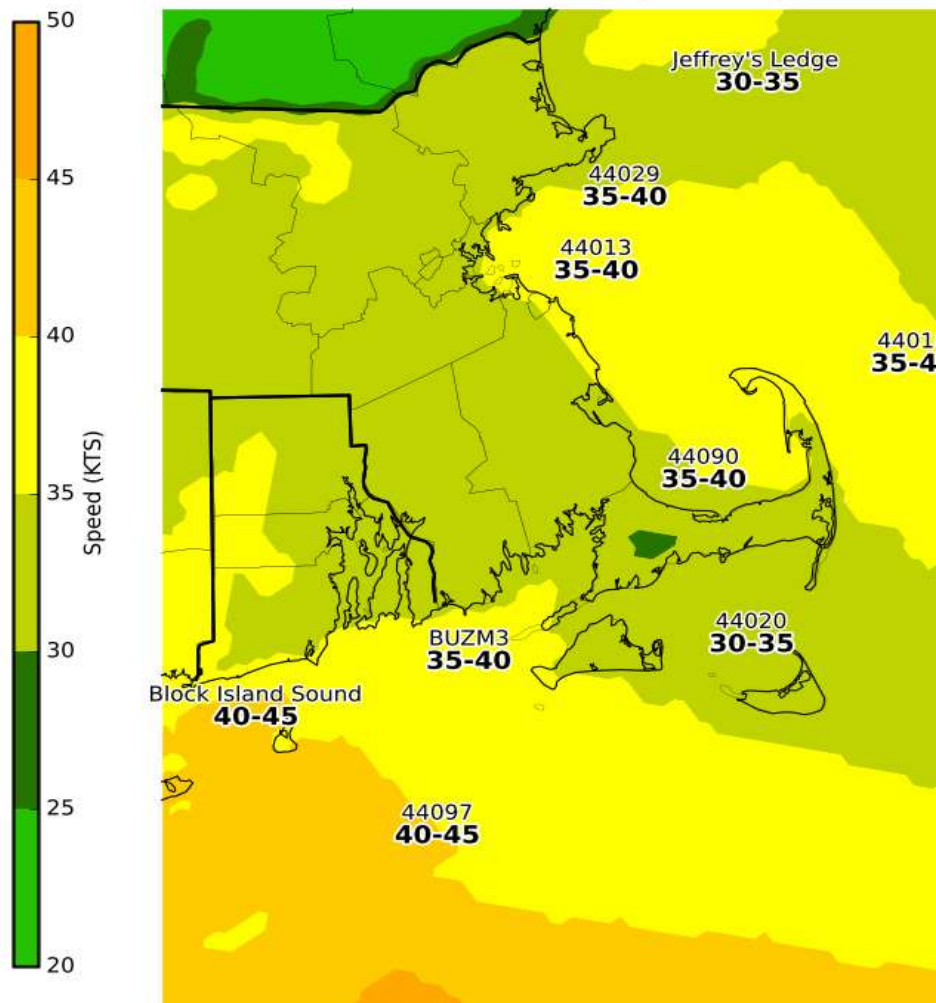
### Maximum Wave Height

Valid: Now through Monday



### Max Wind Gusts (KTS)

Valid: Now through Monday



# Threat Event Summary

✓ **Confidence**: High confidence with respect to flash freeze and bitterly cold wind chills threats.

✓ **What / Where / When:**



## **Flash Freeze**

- Flash freeze ongoing along and southeast of the Boston to Providence corridor
- Rapid freezing of wet surfaces, standing water
- By evening, BOS – PVD will be in the teens, S&E in the 20s, Cape & Islands above freezing
- At midnight, BOS – PVD will be in the single digits, S&E in the teens, Cape & Islands in the low 20s



## **Downed Limbs, Power Outages**

- Gusty winds may result in downed limbs and/or isolated power outages across areas around Hartford CT to Norwood MA where observed heavier amounts icing occurred on trees.



## **Bitterly Cold Wind Chills**

- Bitterly cold wind chills of -15 to -30°F tonight into Monday morning.
- Bitter cold will continue through Tuesday with wind chills of around -10 to -15°F



## **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

# Contact and Next Briefing Information

## Next Briefing ... If Needed

**When:** 5 am Monday, January 21<sup>st</sup>

**Method:** via email



[www.weather.gov/boston](http://www.weather.gov/boston)



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**Disclaimer:** The information contained within this briefing is time-sensitive, do not use after 5 am Monday, January 21<sup>st</sup> as there will be an updated briefing issued