

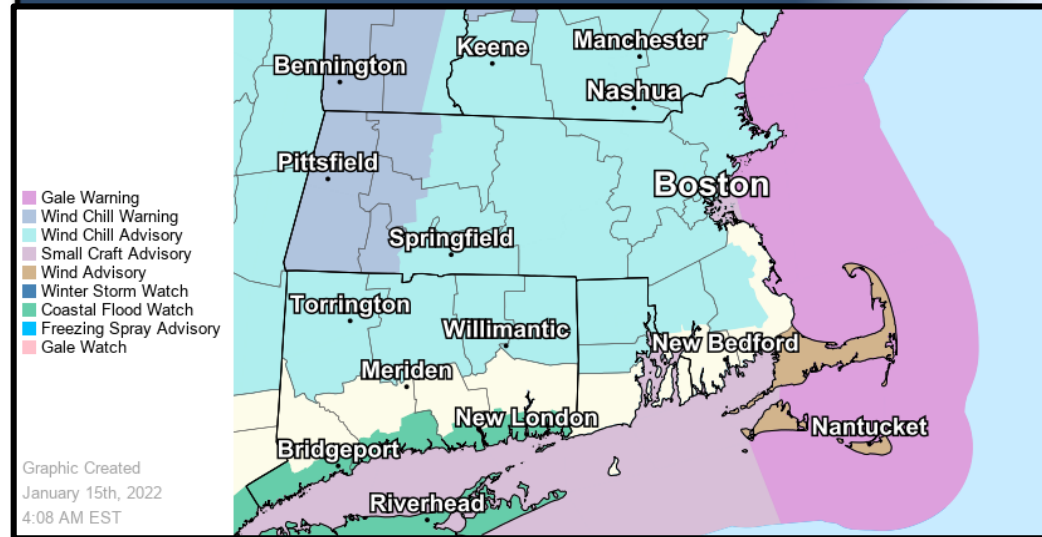
# Dangerous Wind Chills, High Wind and Strong Storm Today Through Monday

National Weather Service

Decision Support Briefing # 4

Saturday, January 15, 2022 4:25 AM

## Current Winter Weather Hazards



## What Has Changed?

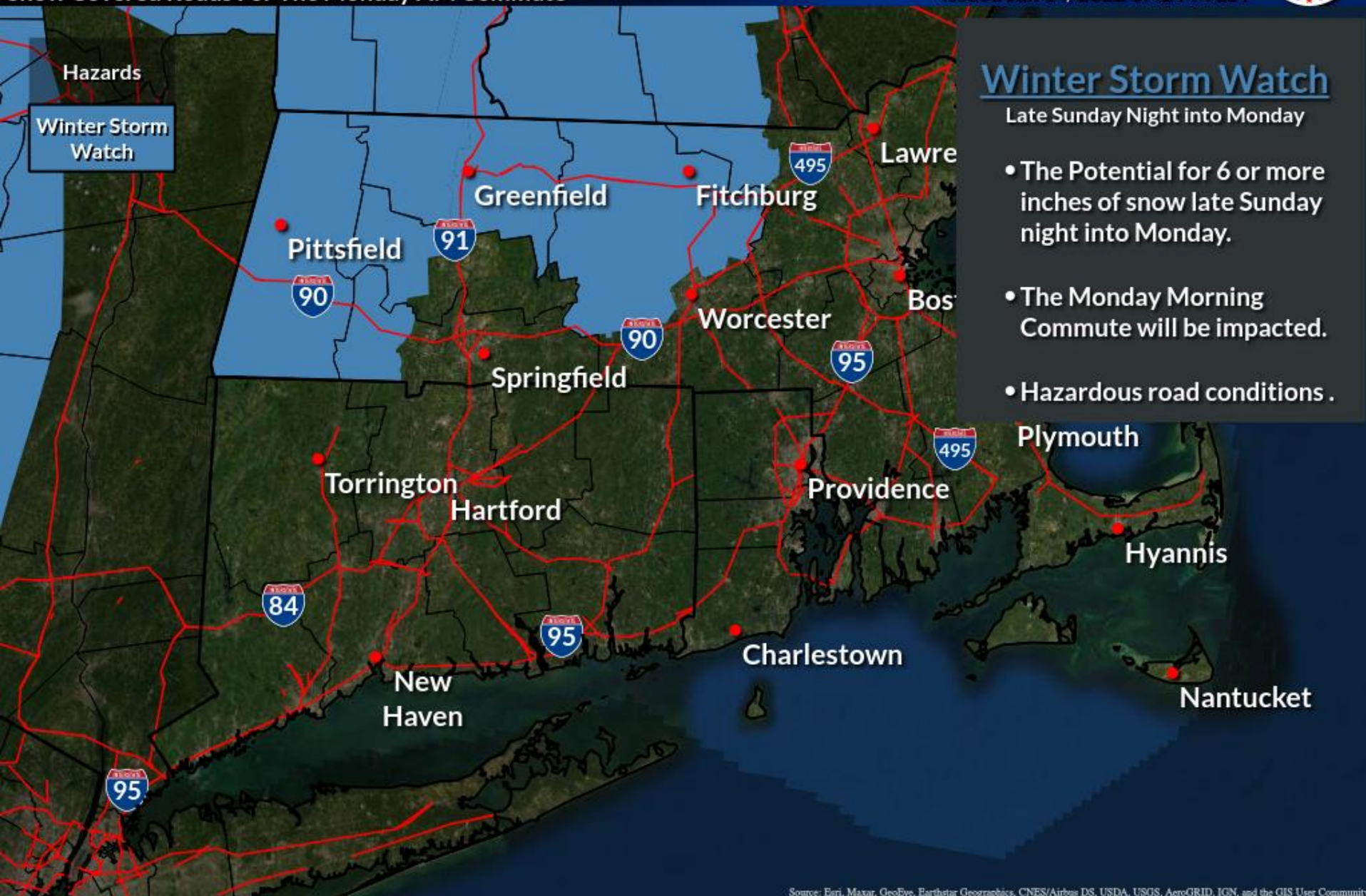
- ✓ Greater concern for coastal winds and coastal flooding on Monday.

# Winter Storm Watch Late Sunday Night Into Monday

Snow Covered Roads For The Monday AM Commute




Weather Forecast Office  
Boston/Norton, MA

Issued Jan 14, 2022 3:42 PM EST



Source: Esri, Maxar, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AeroGRID, IGN, and the GIS User Community

# Main Points Today

Hazard	Impacts	Location	Timing
<b>Wind Chill</b> 	<b>Frostbite could occur on exposed skin in as little as 10 minutes</b>	<b>Most of southern New England, especially higher terrain</b>	<b>Through Midday</b>
<b>Slippery Travel</b> 	<b>Potential icy roads from rain changing to snow with rapidly falling temperatures</b>	<b>Outer Cape Cod</b>	<b>This Morning</b>
<b>Ocean Effect Snow Showers</b> 	<b>Minor snow accumulations from ocean effect snow showers; poor visibility at times</b>	<b>Outer Cape Cod</b>	<b>This Morning</b>



# Summary of Greatest Impacts Tonight/Saturday



**Wind Chill: Most of southern New England, especially Higher Terrain**

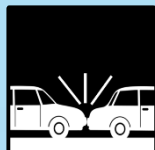
None

Limited

Elevated

Significant

Extreme



**Slippery Travel: Cape Cod and SE Coastal MA**

None

Limited

Elevated

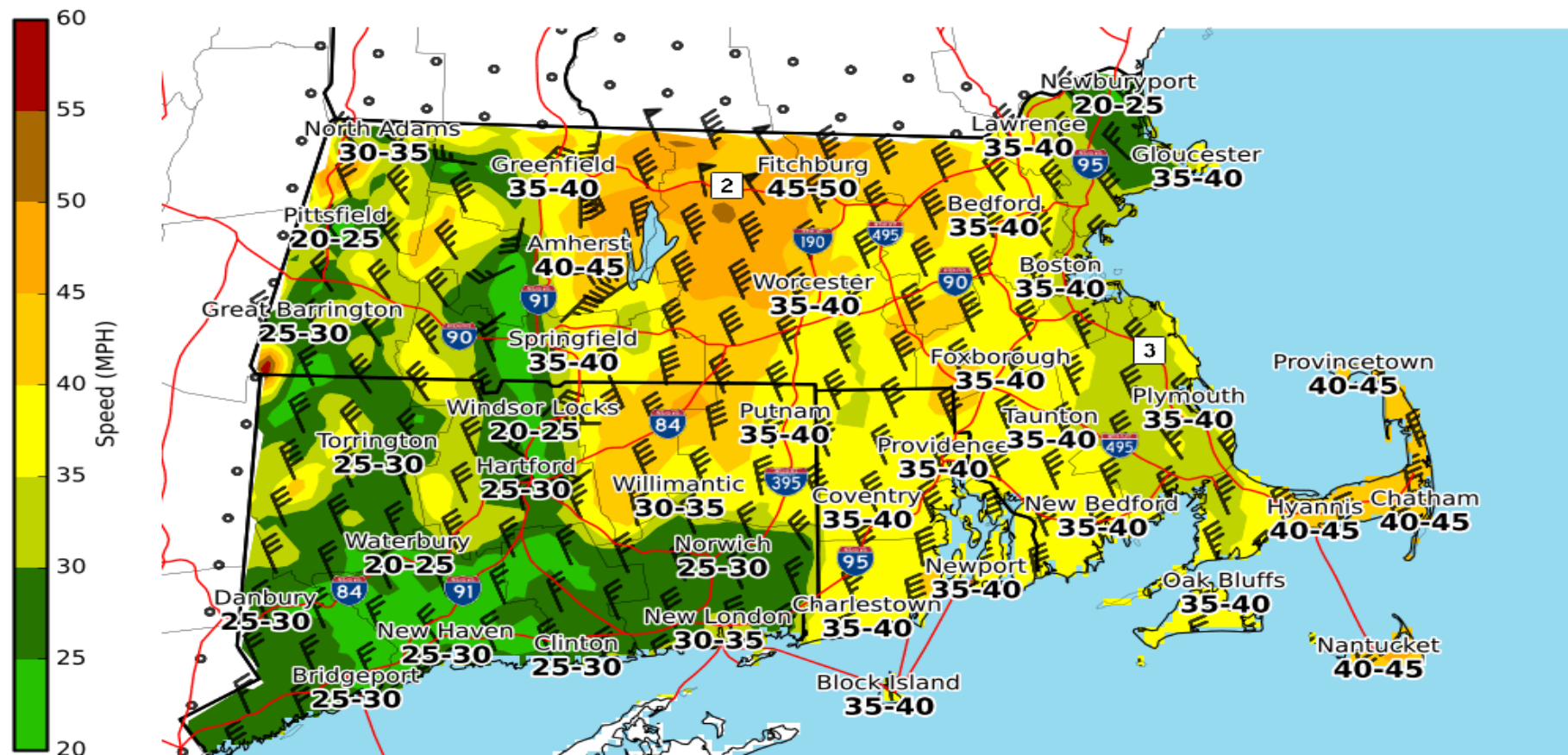
Significant

Extreme



## Forecast Maximum Wind Gusts Tonight

### Max Wind Gusts (MPH) Valid: This Morning through This Evening



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**Boston/Norton, MA**  
01/15/2022 03:36 AM EST

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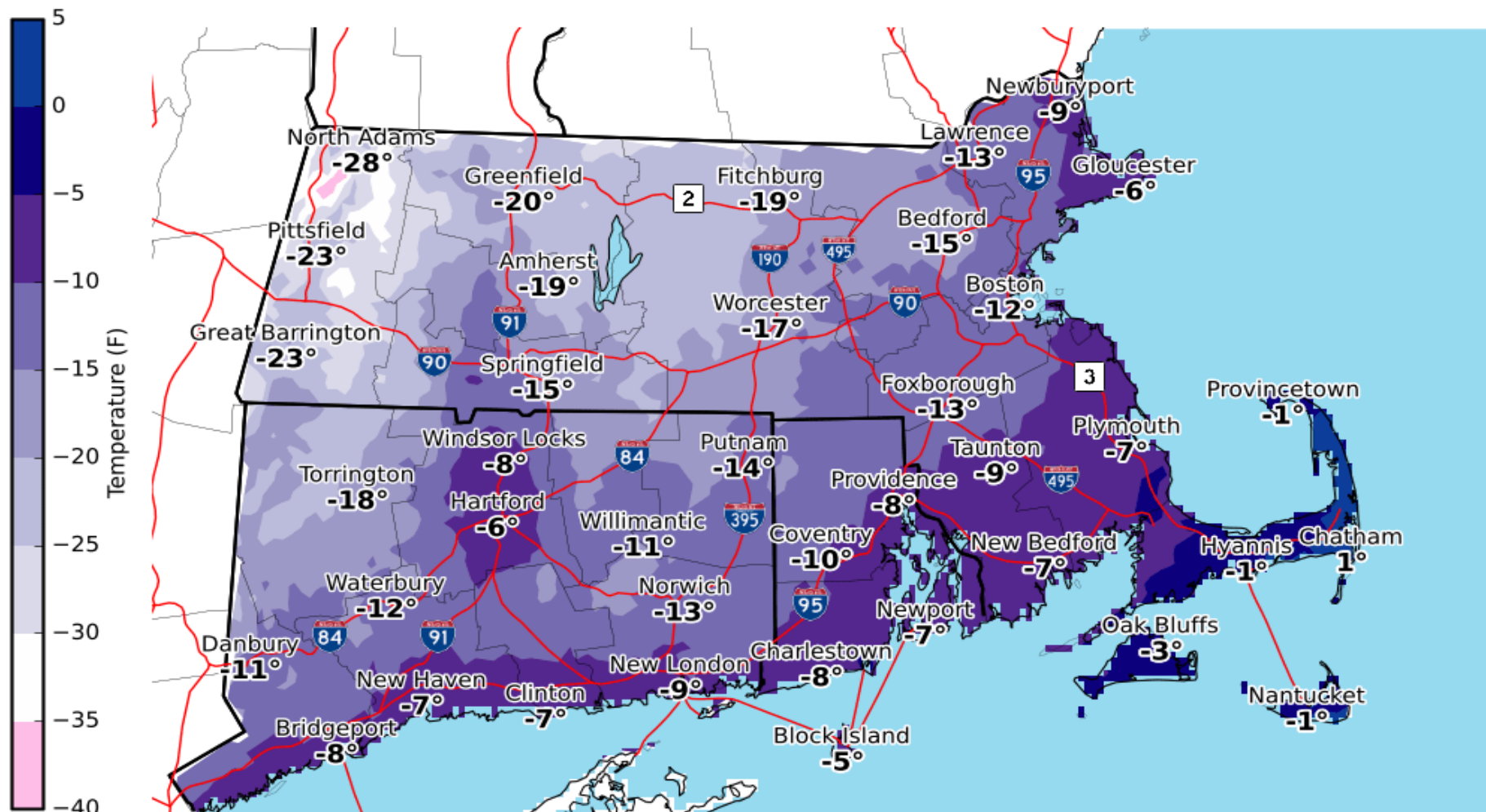


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## Forecast Minimum Wind Chills Saturday Morning

### Min Apparent Temperature

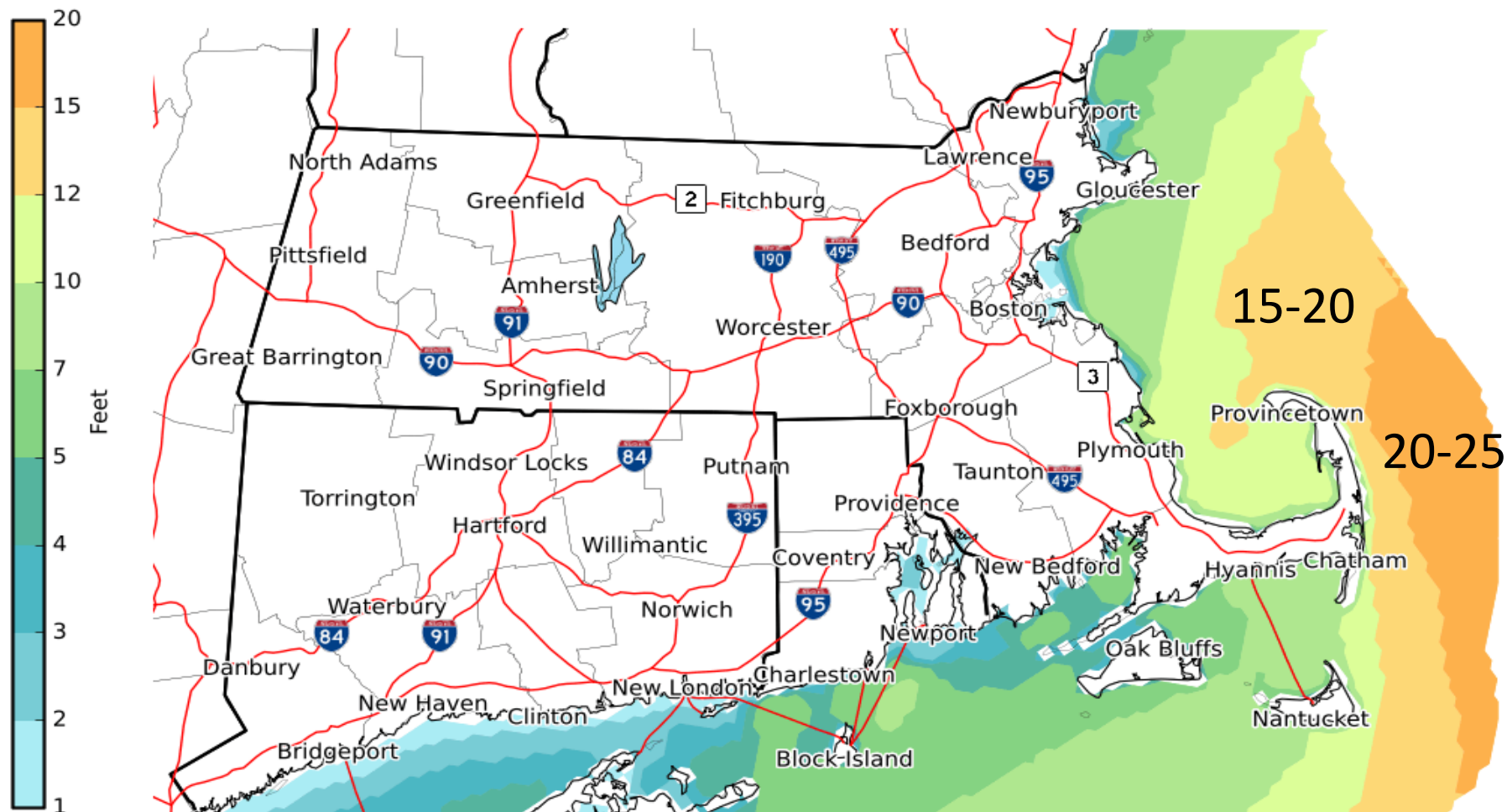
Valid: Today








## Forecast Maximum Wave Heights (Ft): Tonight Into Saturday Morning

### Maximum Wave Height Valid: Today and This Evening



# Main Points Sunday Night and Monday

Hazard	Impacts	Location	Timing
<b>Damaging Winds</b> 	Possible power outages	Along coastal MA and RI	Monday Morning
<b>Coastal Flooding</b> 	Minor to Moderate Coastal flooding; greatest along N/NE facing beaches	Immediate coastline of RI, MA	Primarily the Monday morning high tide
<b>Snow/Rain Mix</b> 	Snow changing to rain; accumulations along the immediate coast look minor if anything at all. Greatest concern for several inches of snow in N. Worcester County and the Berkshires	Most of S. New England;	Late Sunday Night through Monday Morning





# Summary of Greatest Impacts Sunday Night/Monday



**Winds: East coastal MA with greatest risk Cape Cod and Islands**



**Coastal Flooding: Minor along S. RI/MA Coast, Minor/MDT E/NE MA Coast**

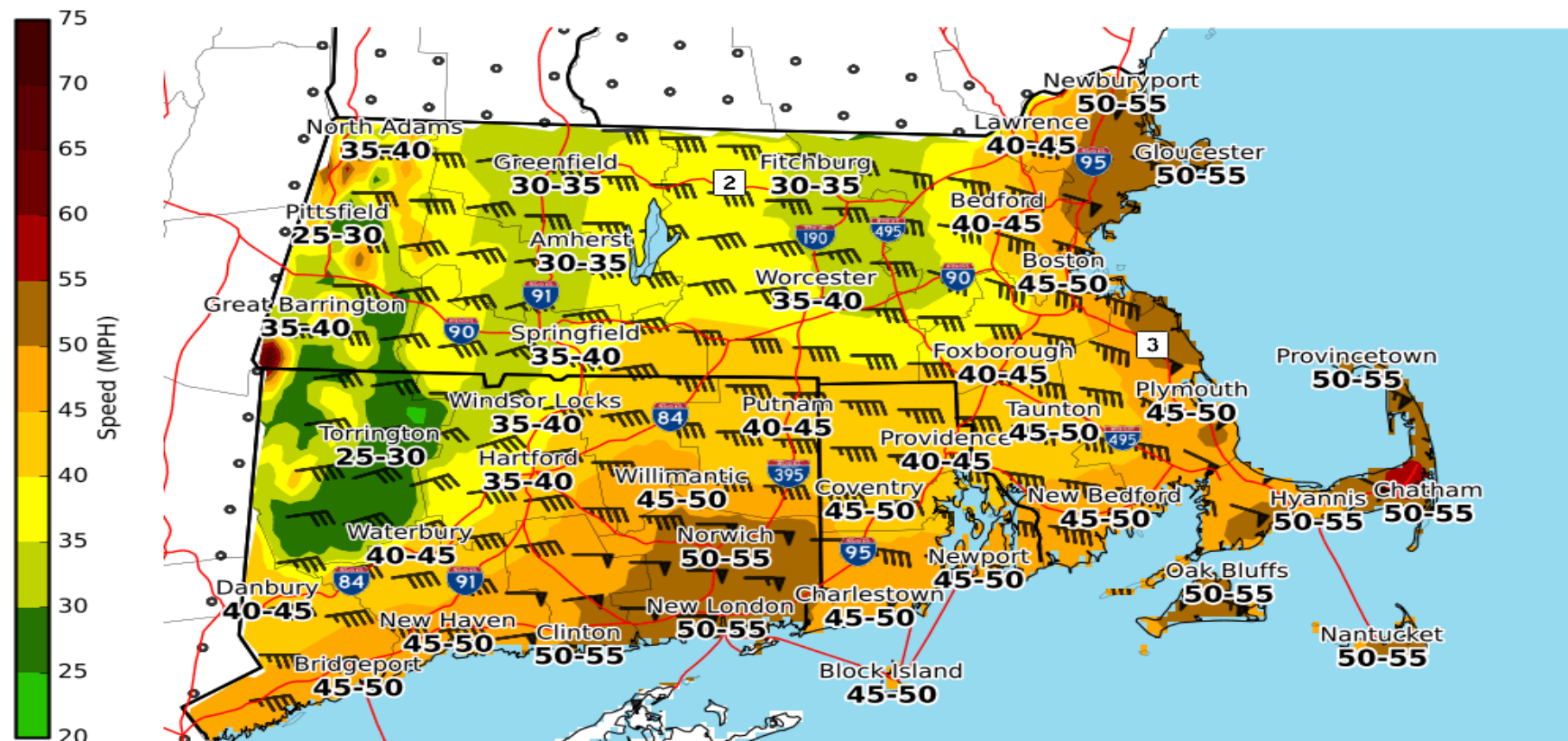


**Snow to Rain Mix: Most of S. New England; immediate coast remains rain**



## Forecast Maximum Wind Gusts Monday Morning

**Max Wind Gusts (MPH)**  
Valid: Sunday Night and Monday



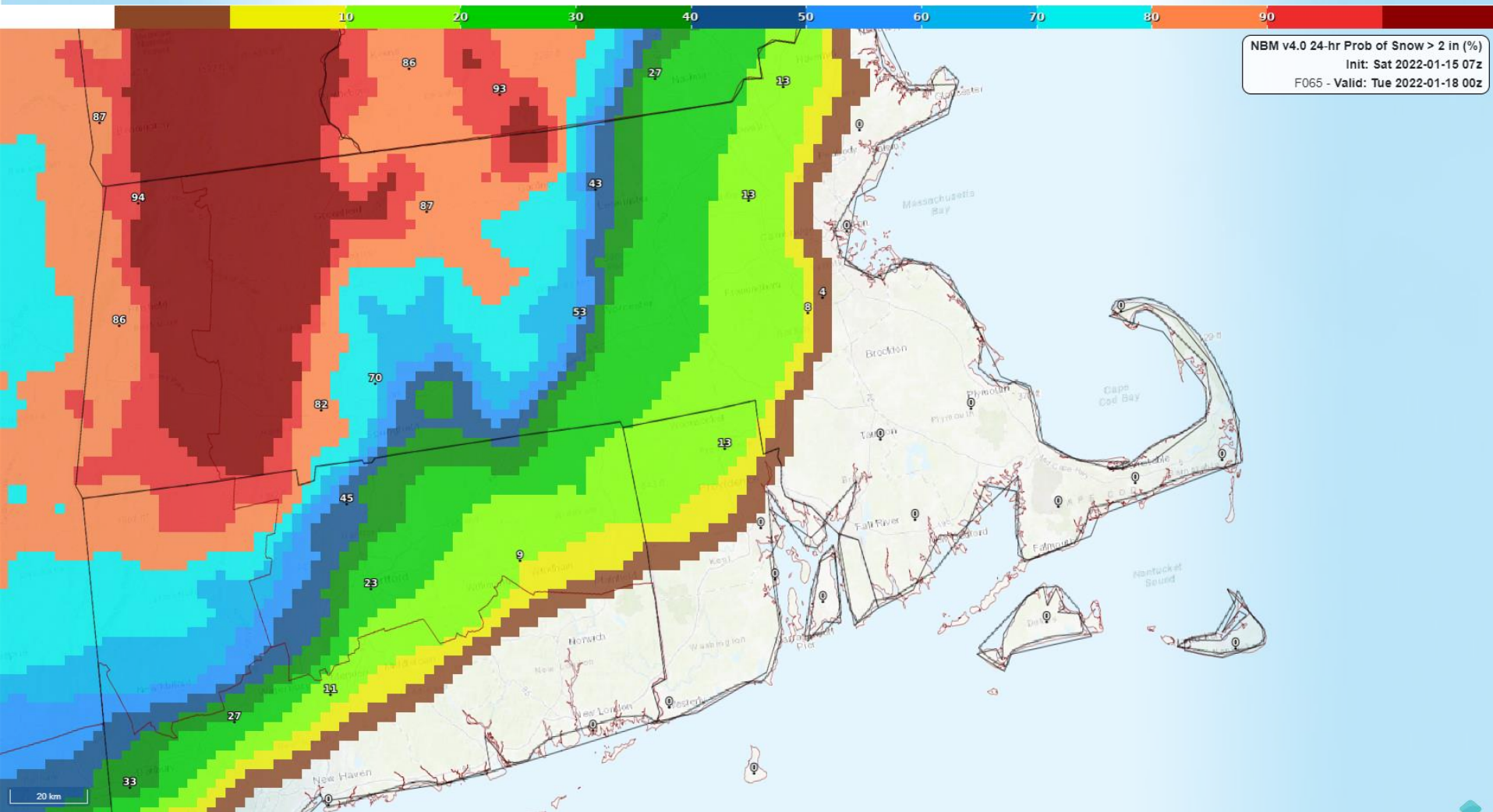
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01/15/2022 04:07 AM EST

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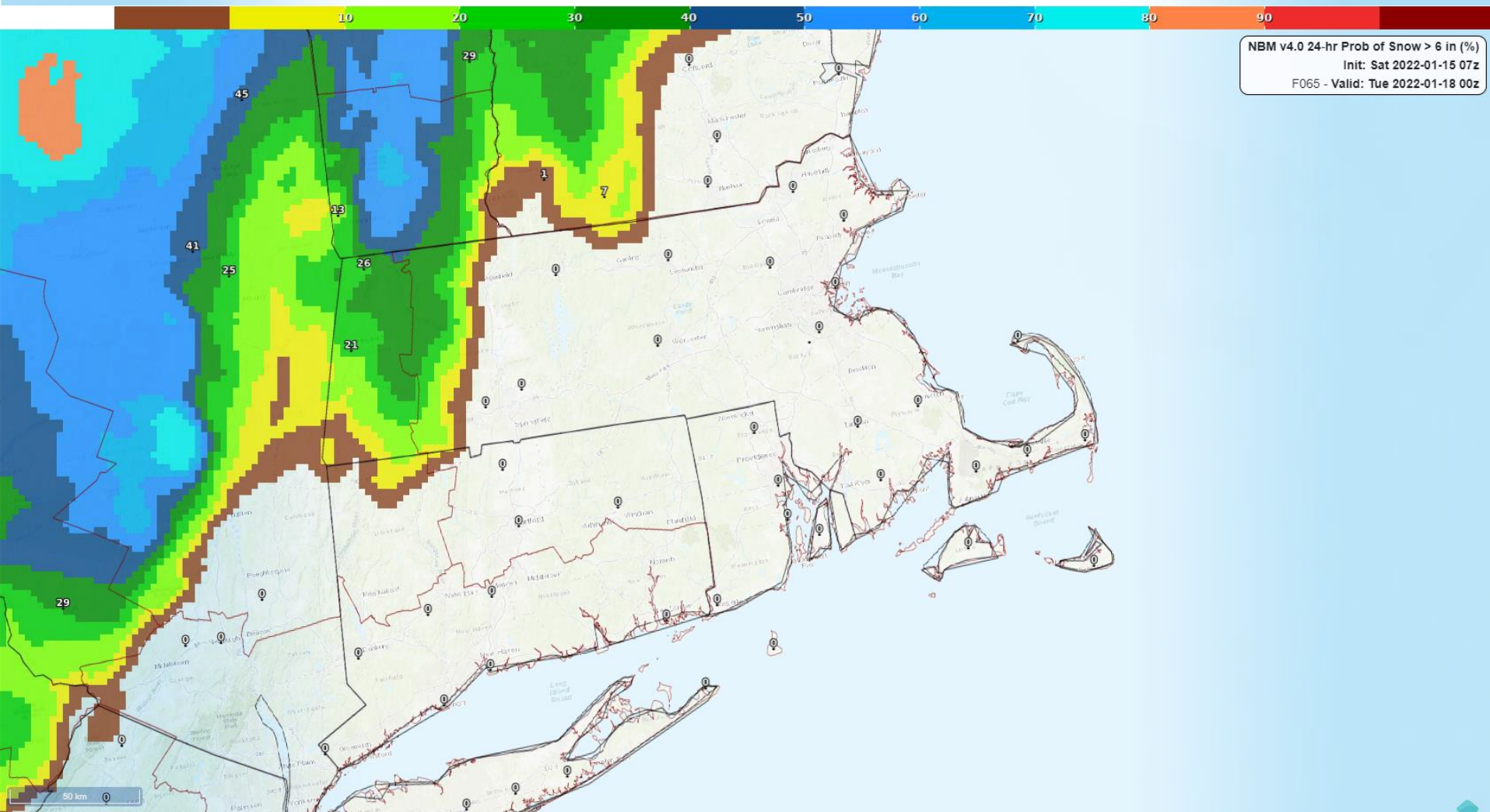
[weather.gov/Boston](https://weather.gov/Boston)

## Probability 2+” Snow Late Sunday Night/Monday





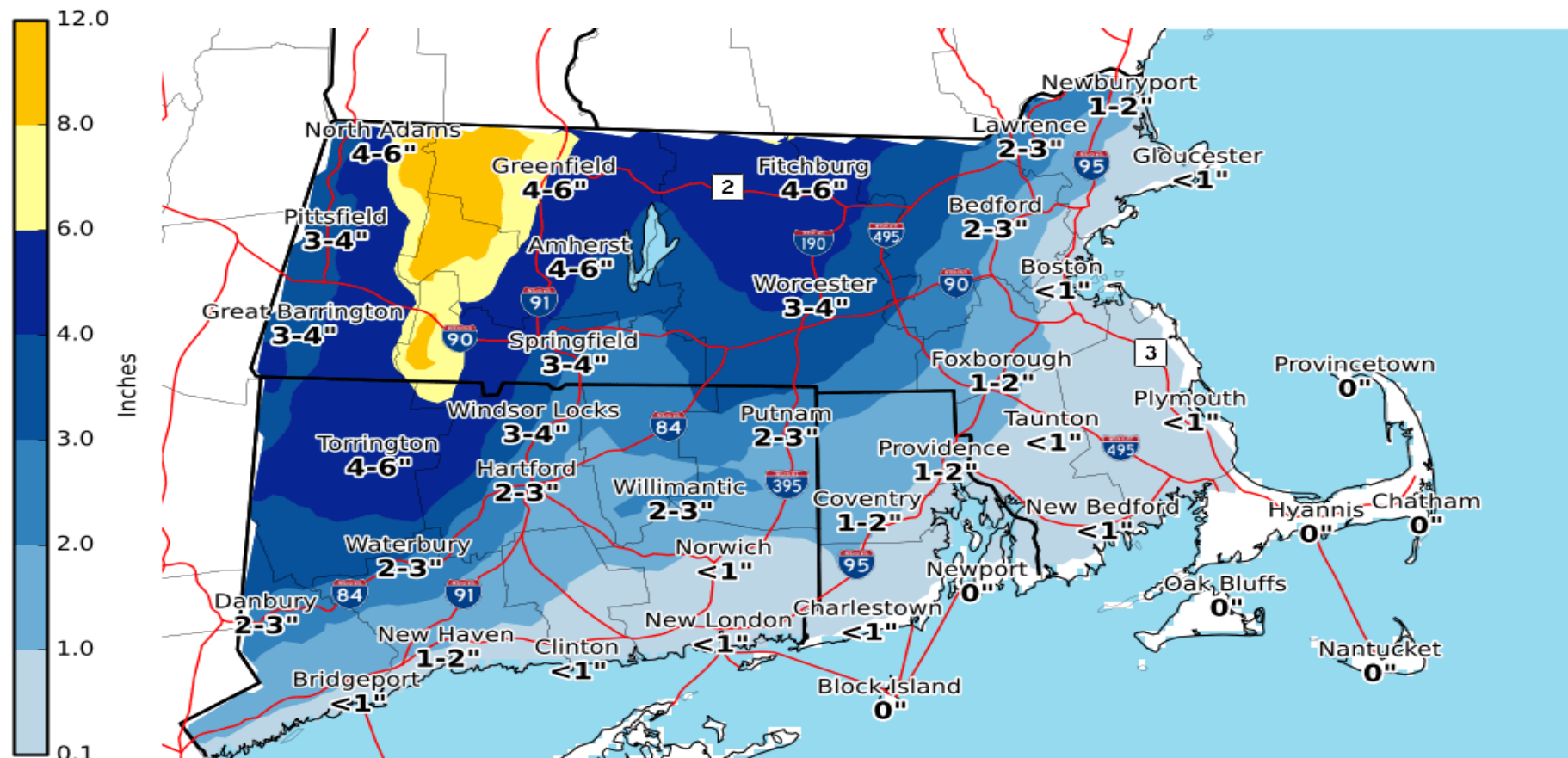
# Probability 6+” Snow Late Sunday Night/Monday



# Preliminary Forecast Storm Total Snowfall Late Sunday Night through Monday

## Expected Snowfall - Official NWS Forecast

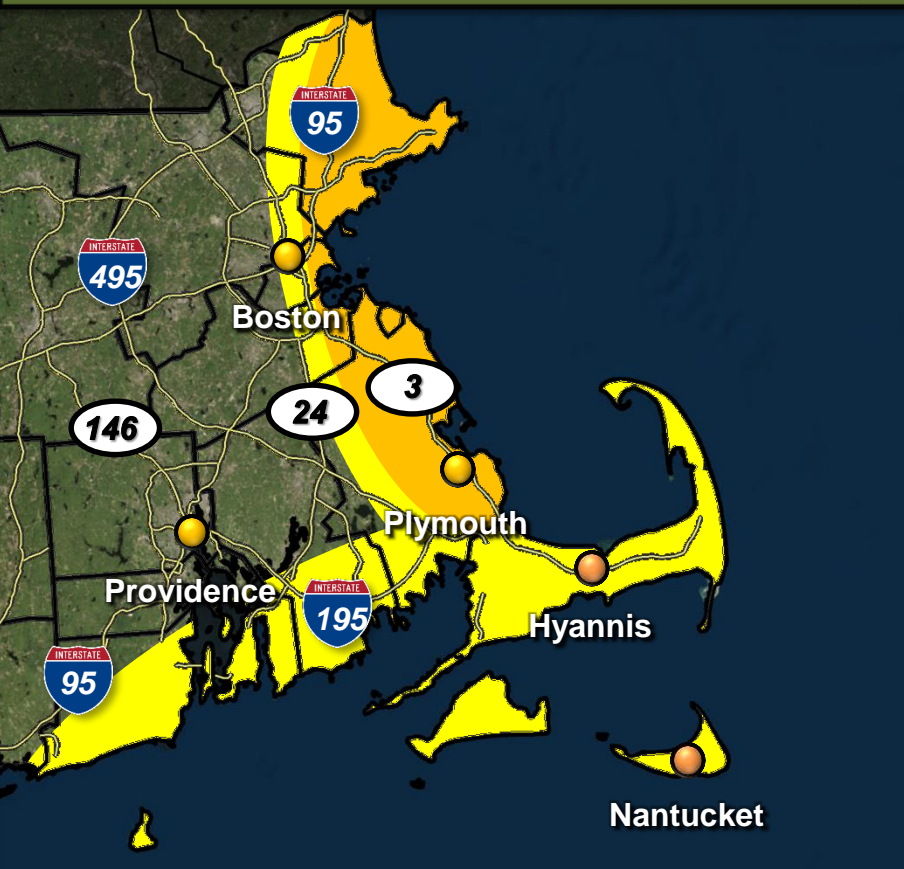
Valid: Sunday night and Monday



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## Coastal Flooding – Surge / Inundation Monday Morning High Tide



### Minor to Moderate Coastal Flooding

- Partial 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.
- Greatest threat for moderate flooding along north/northeast facing coastlines

### Timing




- High tide Monday morning will be most impacted.

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



# Threat Event Summary

- ✓ **Confidence:** High on dangerously cold wind chills, high winds, & slippery travel  
Moderate on outcomes Late Sunday Night and Monday
- ✓ **What:**
  - 
    - Wind Gusts 45 to 55 mph SE coastal MA, Cape Cod & Islands
    - Potentially damaging winds again Monday AM near the coast
  - 
    - Dangerously cold wind chills 15 to 30F below zero
    - Potential accumulating snow for the interior Late Sunday into Monday
  - 
    - Minor to Moderate coastal flooding during the Monday morning high tide
- ✓ **Where:** All of Southern New England
- ✓ **When:** Today; Late Sunday night into Monday

# Contact and Next Briefing Information

## Next Briefing

**When:** 6 pm, Saturday, January 15th

**Method:** via email



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**Disclaimer:** The information contained within this briefing is time-sensitive,  
do not use after 6 pm, Saturday, January 15, 2022

