

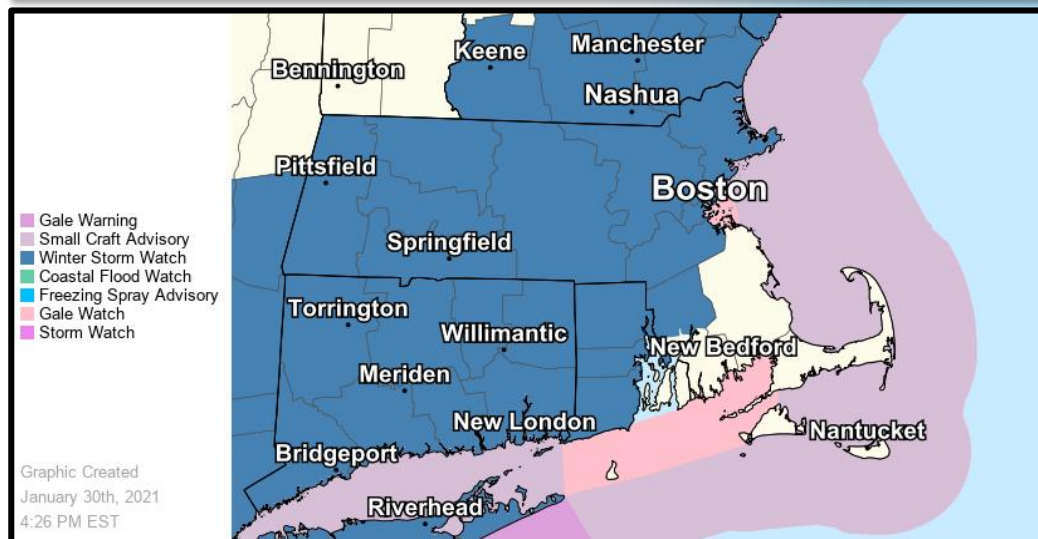
# Significant Winter Storm Potential Later Monday Into Tuesday

National Weather Service  
Decision Support Briefing # 3  
Saturday, January 30, 2021 4:26 PM





## What Has Changed?

- ✓ A Winter Storm Watch is in effect for much of the region for Monday and Tuesday
- ✓ Decreased snow totals in far southeast MA. Increased the snow totals in western MA/CT

## Current Winter Weather Hazards



## Main Points

| Hazard        |                                                                                     | Impacts                                                                                    | Location                                                                                                                                      | Timing                          |
|---------------|-------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------|
| Heavy Snow    |    | Significant snow accumulations of 8 or more inches possible resulting in hazardous travel. | A significant part of Southern New England may be impacted, but specific locations remain uncertain. Less likely on Cape Cod and the islands. | Monday into Tuesday.            |
| Strong Winds  |    | Power outages possible along with a few downed trees.                                      | Eastern MA and RI.                                                                                                                            | Later Monday into Tuesday.      |
| Coastal Flood |   | Widespread Minor with pockets of moderate coastal flooding and beach erosion.              | Portions of the Eastern Massachusetts coastline including Nantucket.                                                                          | Monday night into Tuesday.      |
| Marine        |  | High Seas and Strong Winds may result in dangerous conditions for Mariners.                | MA and RI Coastal Waters                                                                                                                      | Monday afternoon into Wednesday |

# Summary of Potentially Greatest Impacts



**Heavy Snow:** Potential for 8 or more inches across parts of the region

|      |         |          |             |         |
|------|---------|----------|-------------|---------|
| None | Limited | Elevated | Significant | Extreme |
|------|---------|----------|-------------|---------|



**Strong Winds:** Eastern MA and RI

|      |         |          |             |         |
|------|---------|----------|-------------|---------|
| None | Limited | Elevated | Significant | Extreme |
|------|---------|----------|-------------|---------|



**Coastal Flood/Beach Erosion:** Eastern MA coastline

|      |         |          |             |         |
|------|---------|----------|-------------|---------|
| None | Limited | Elevated | Significant | Extreme |
|------|---------|----------|-------------|---------|



**Marine:** MA and RI Coastal Waters

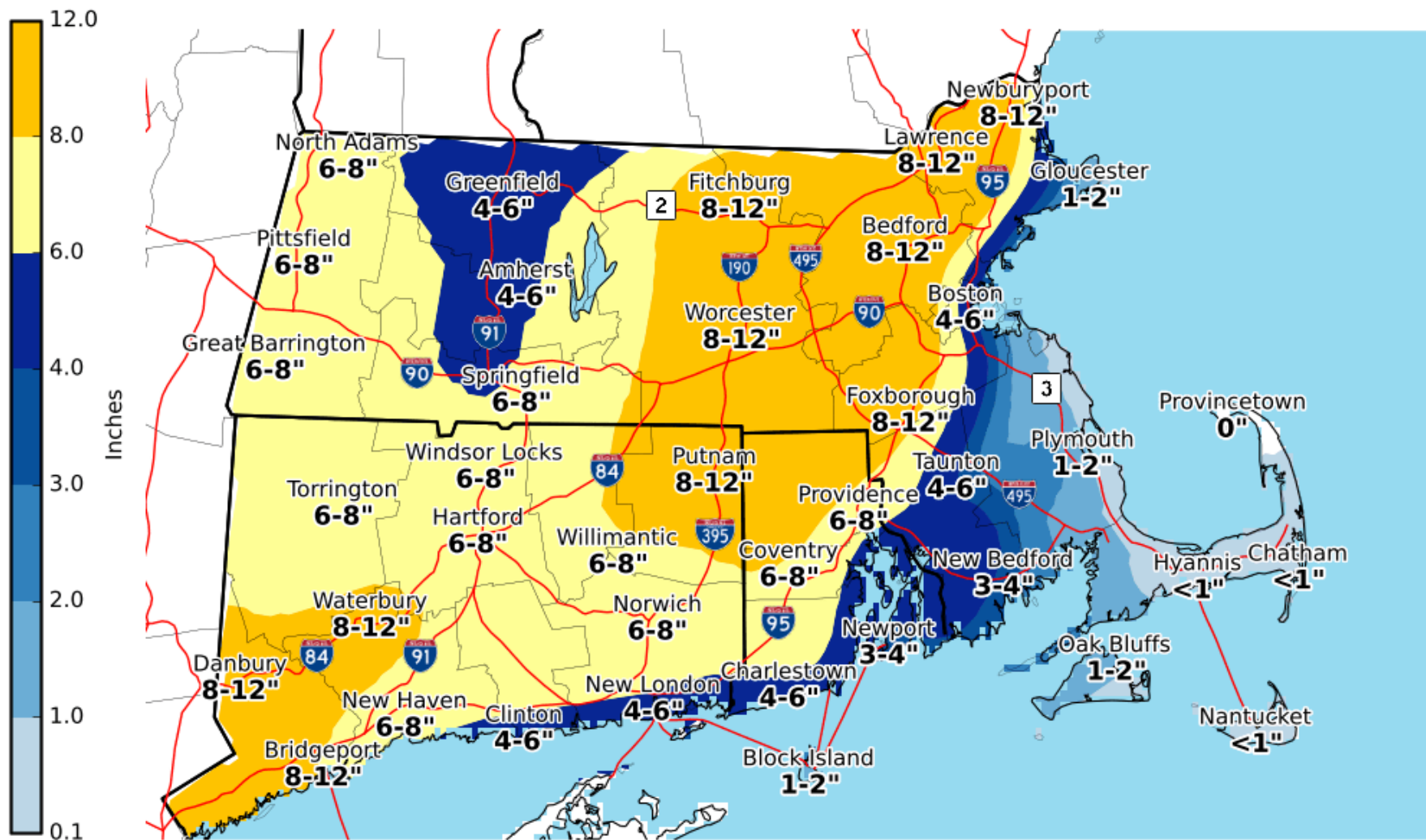
|      |         |          |             |         |
|------|---------|----------|-------------|---------|
| None | Limited | Elevated | Significant | Extreme |
|------|---------|----------|-------------|---------|



## Forecast Storm Total Snowfall

### Expected Snowfall - Official NWS Forecast

Valid: Monday and Tuesday

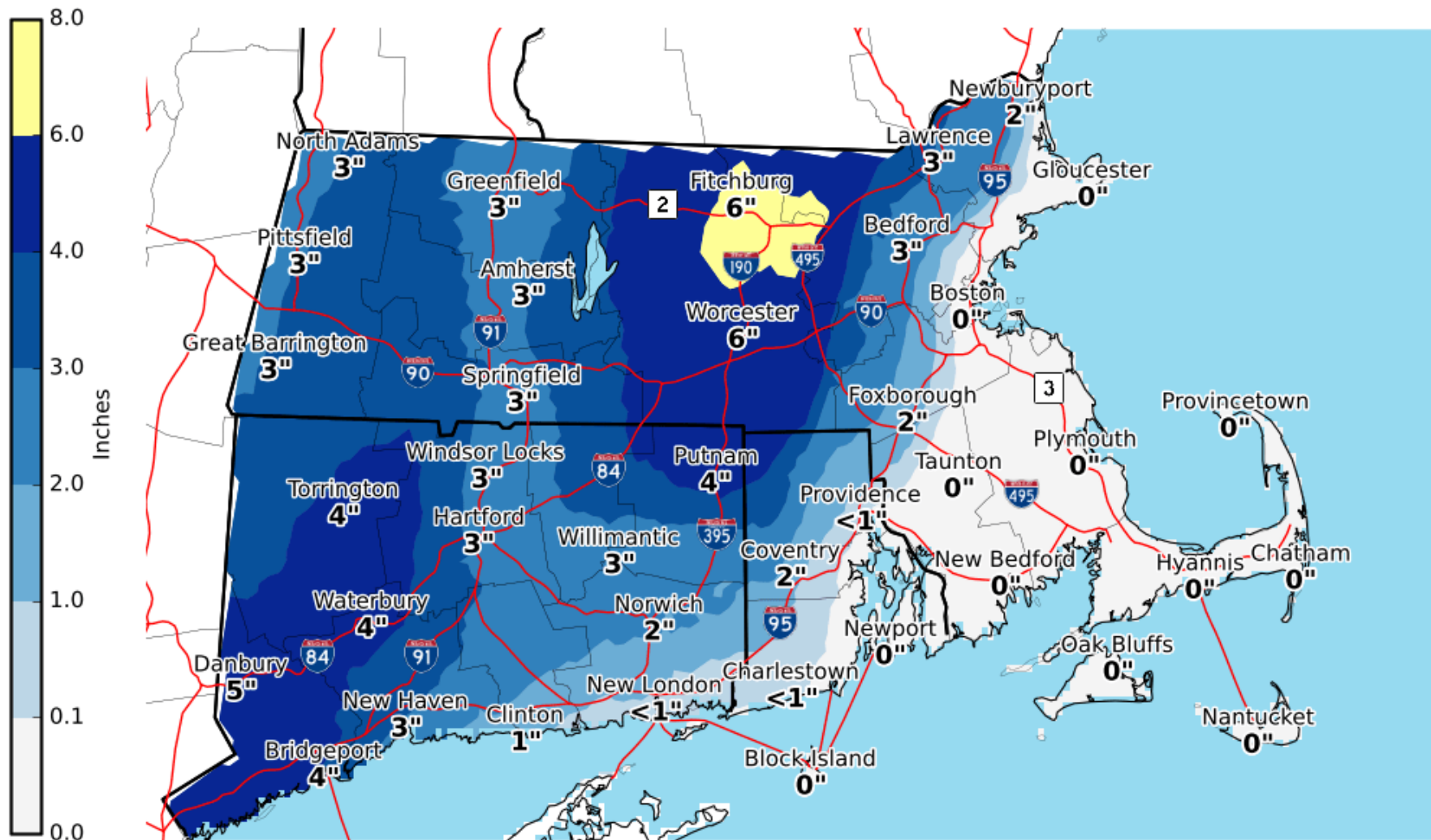




## Forecast Storm Total Snowfall (Best Case)

**Low End Amount - 9 in 10 Chance (90%) Of Higher Snowfall**

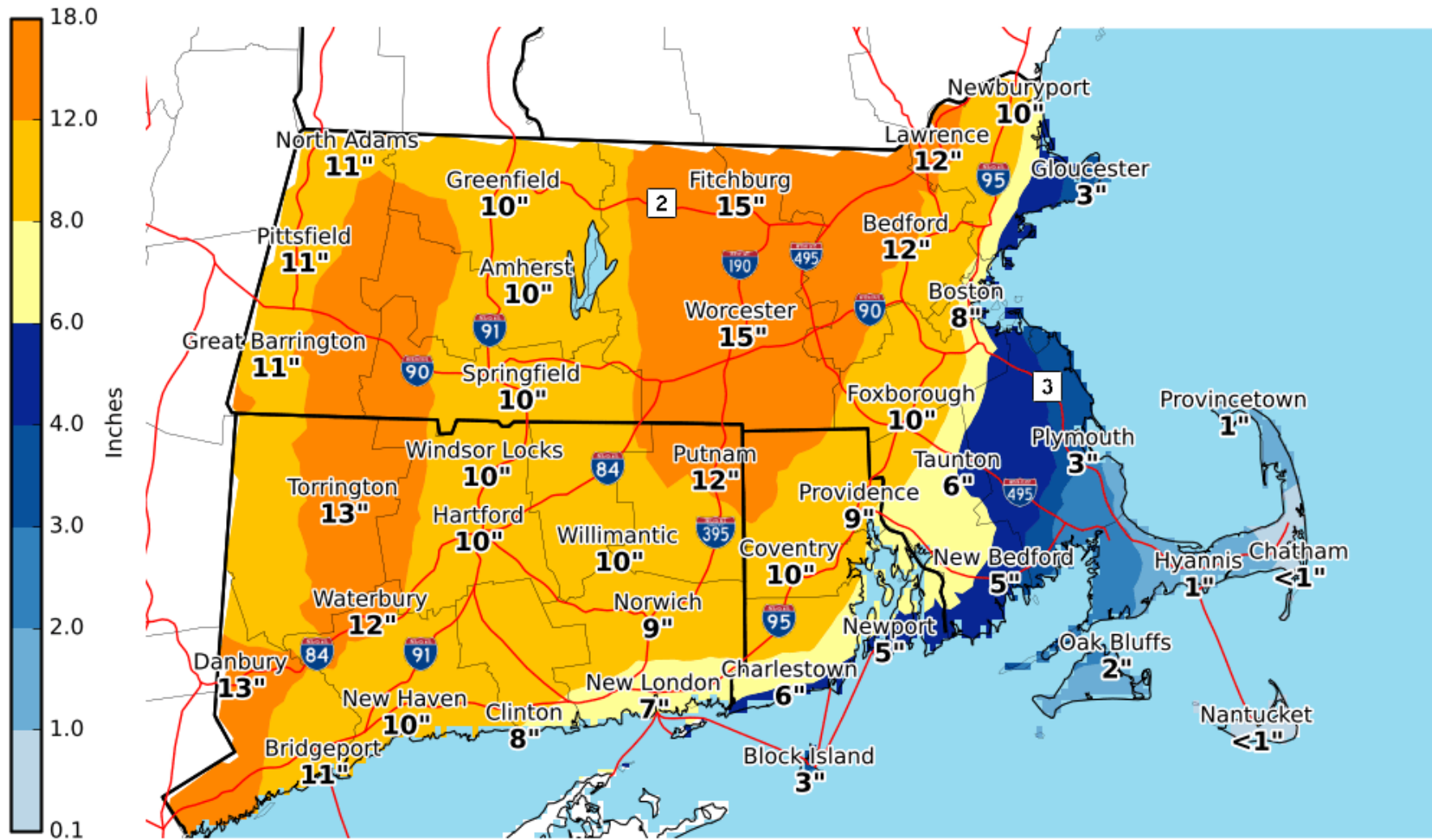
**Valid: Monday and Tuesday**



## Forecast Storm Total Snowfall (Worst Case)

**High End Amount - 1 in 10 Chance (10%) Of Higher Snowfall**

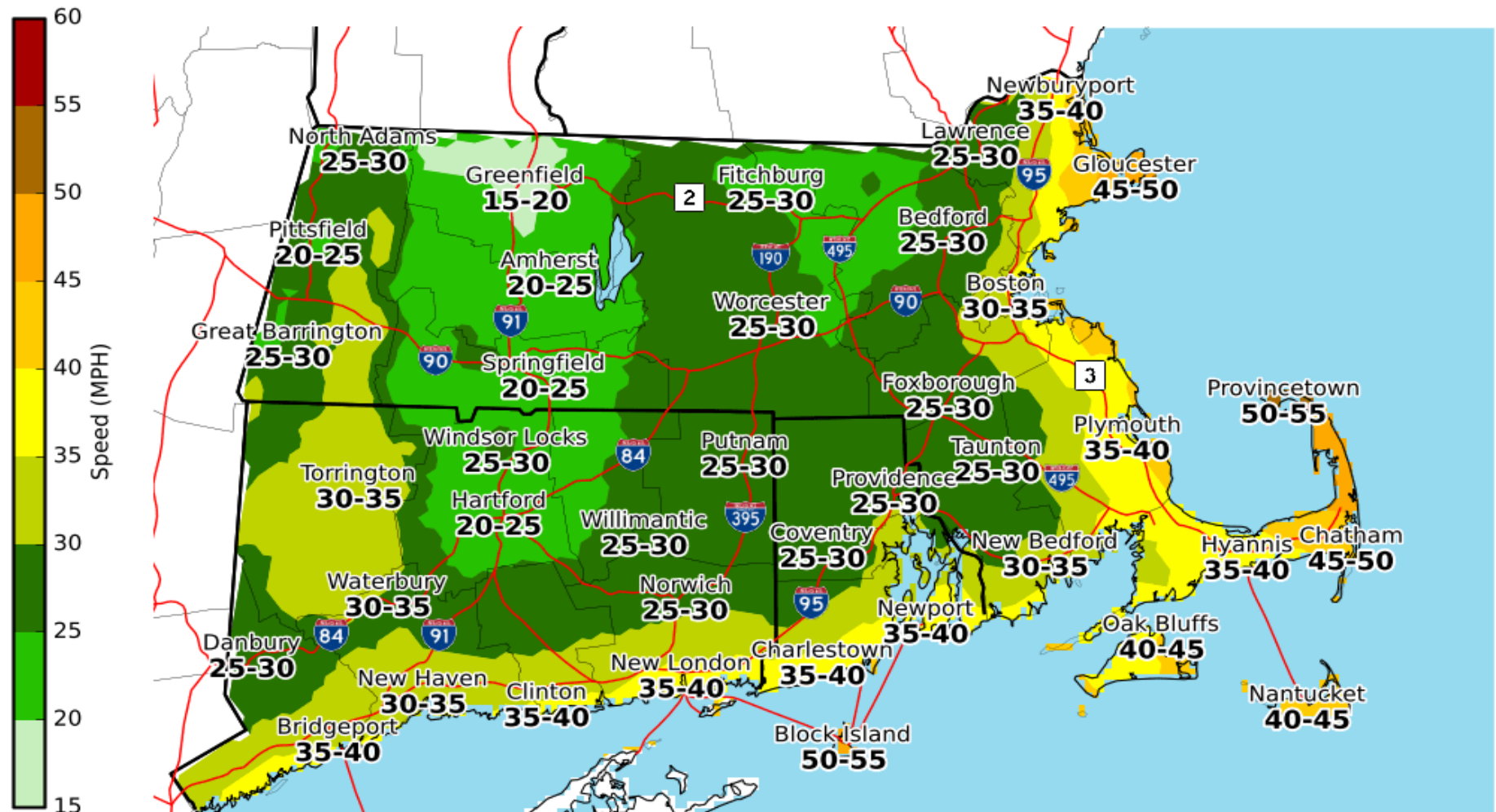
**Valid: Monday and Tuesday**



## Forecast Maximum Wind Gusts

### Max Wind Gusts (MPH)

Valid: Monday and Tuesday

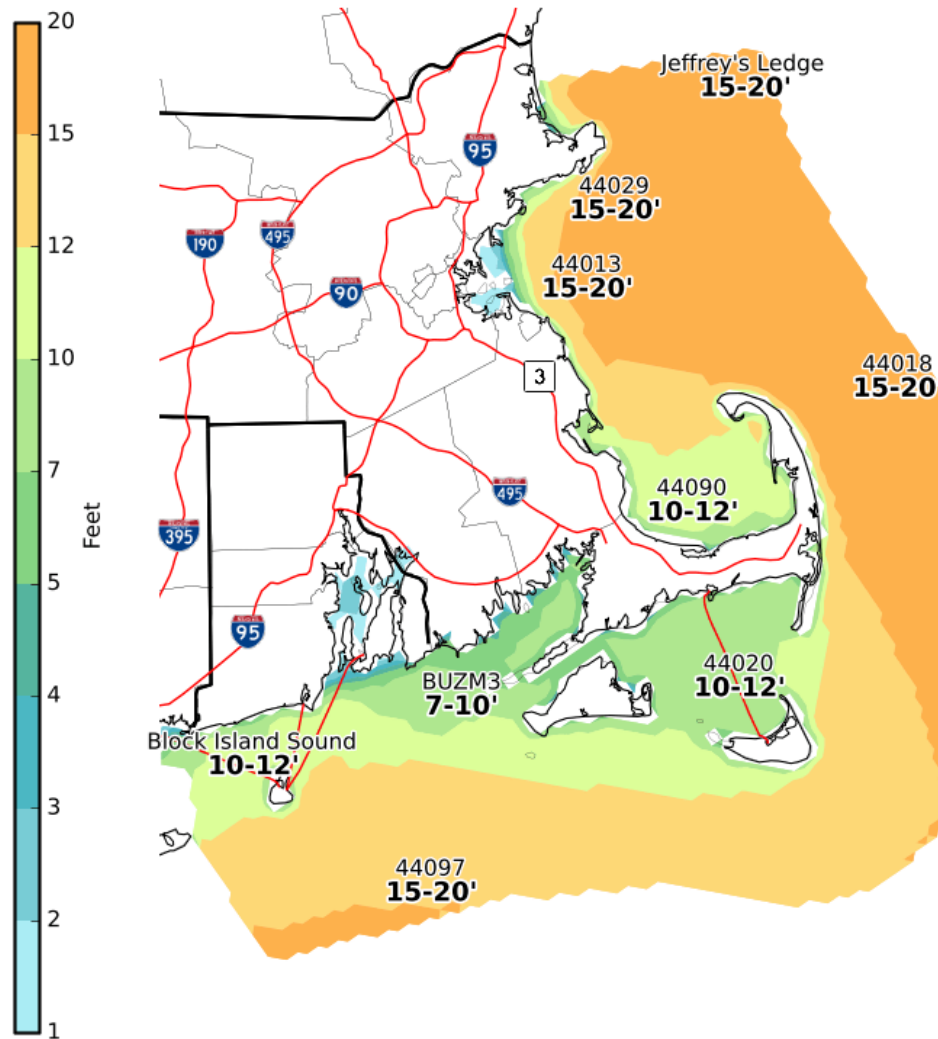




# Forecast Maximum Wave Heights and Wind Gusts (in kts)

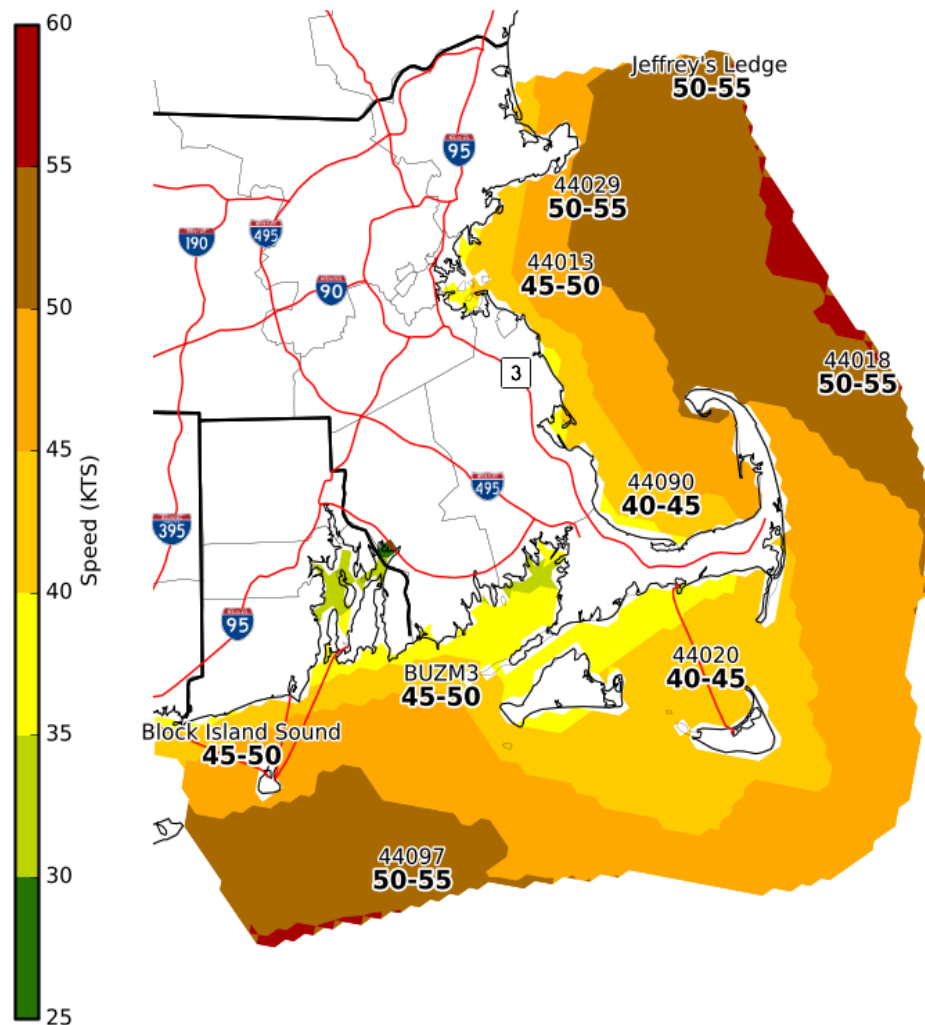
## Maximum Wave Height

Valid: Monday and Tuesday



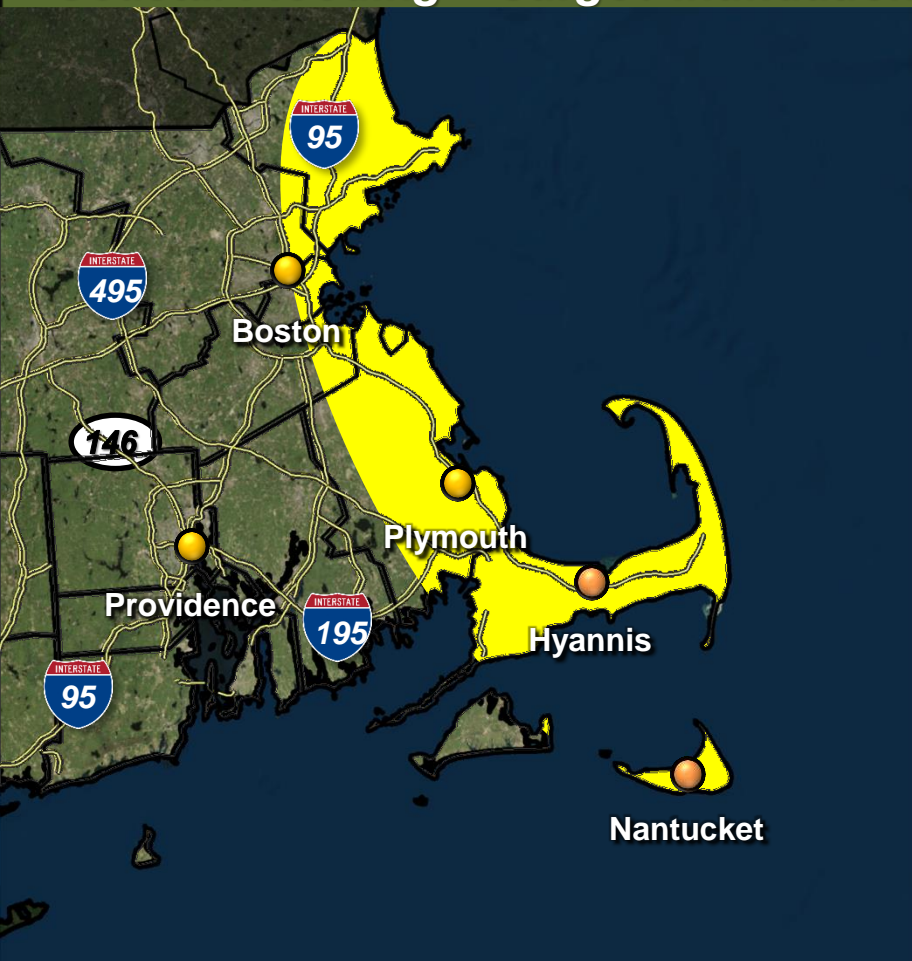
## Max Wind Gusts (KTS)

Valid: Monday and Tuesday





## Coastal Flooding – Surge / Inundation



### Minor Coastal Flooding

- Widespread minor coastal flooding expected
- Pockets of moderate coastal flooding including structural damage possible
- 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

- Spanning multiple tide cycles, from Monday night into Tuesday

|                | 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 |

|          |
|----------|
| Minor    |
| Moderate |
| Major    |
| Extreme  |

## Threat Event Summary

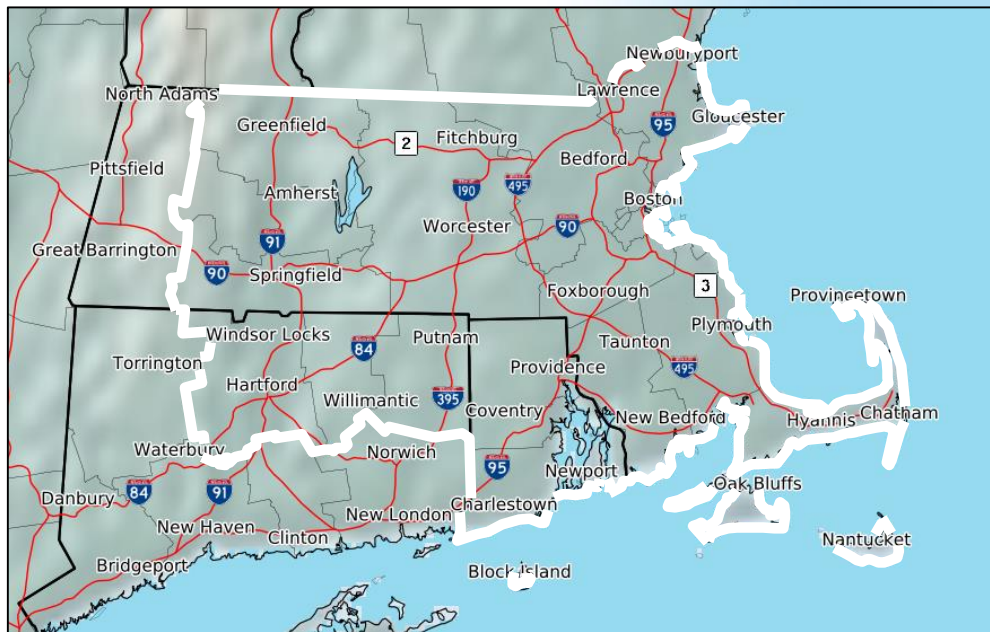
- ✓ **Confidence:** Moderate to high confidence on a winter storm, with greatest uncertainty in where the risk for heaviest snow accumulations occur. Storm intensity, timing, and the rain/snow line will continue to be honed in on.
- ✓ **What:**
  -  Odds of a significant snow across much of southern New England are increasing
  -  Strong winds may result in power outages and a few downed trees across eastern MA & RI.
  -  Coastal flooding and beach erosion will be possible along the eastern MA coastline during the high tides Monday night and Tuesday.
- ✓ **Where:** The potential for significant snow accumulations exist across the entire region, outside of Cape Cod and the Islands. The strong wind and coastal flood threat will be across eastern MA & RI.
- ✓ **When:** Later Monday Into Tuesday.

# Contact and Next Briefing Information

## Next Briefing

**When:** 6 am, Sunday, January 31<sup>st</sup>

**Method:** via email



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**Disclaimer:** The information contained within this briefing is time-sensitive,  
do not use after 6 am, Sunday, January 31, 2021.

