

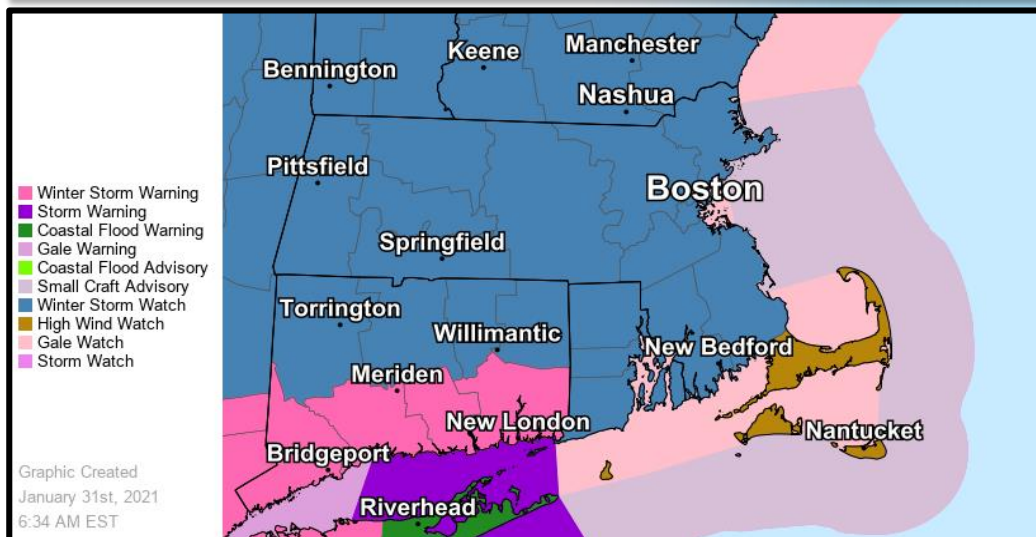
# Significant Winter Storm Potential Later Monday Into Tuesday

National Weather Service  
Decision Support Briefing # 4  
Sunday, January 31, 2021 6:34 AM





## What Has Changed?

- ✓ A Winter Storm Watch is expanded across much of Southeast Massachusetts for Monday and Tuesday
- ✓ High Wind Watch is in effect for Cape Cod and the Islands.
- ✓ Storm Watch is in effect for the outer coastal waters.

## Current Winter Weather Hazards



## Main Points

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

# Summary of Potentially Greatest Impacts



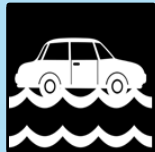
**Heavy Snow: Potential for 8 or more inches across parts of the region**

None	Limited	Elevated	Significant	Extreme
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**Strong Winds: Eastern MA and RI**

None	Limited	Elevated	Significant	Extreme
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**Coastal Flood/Beach Erosion: Eastern MA coastline**

None	Limited	Elevated	Significant	Extreme
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**Marine: MA and RI Coastal Waters**

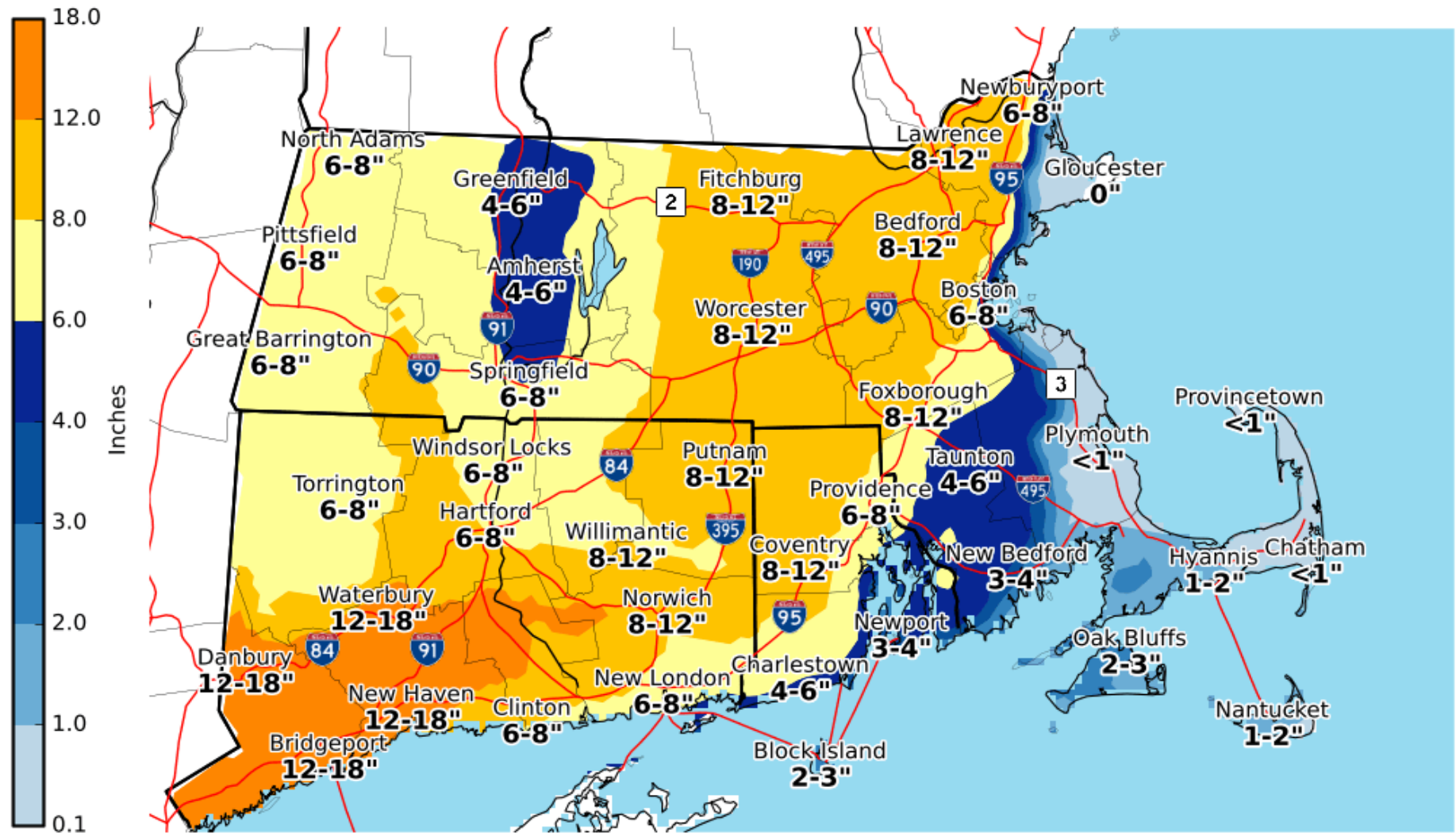
None	Limited	Elevated	Significant	Extreme
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## Forecast Storm Total Snowfall

### Expected Snowfall - Official NWS Forecast

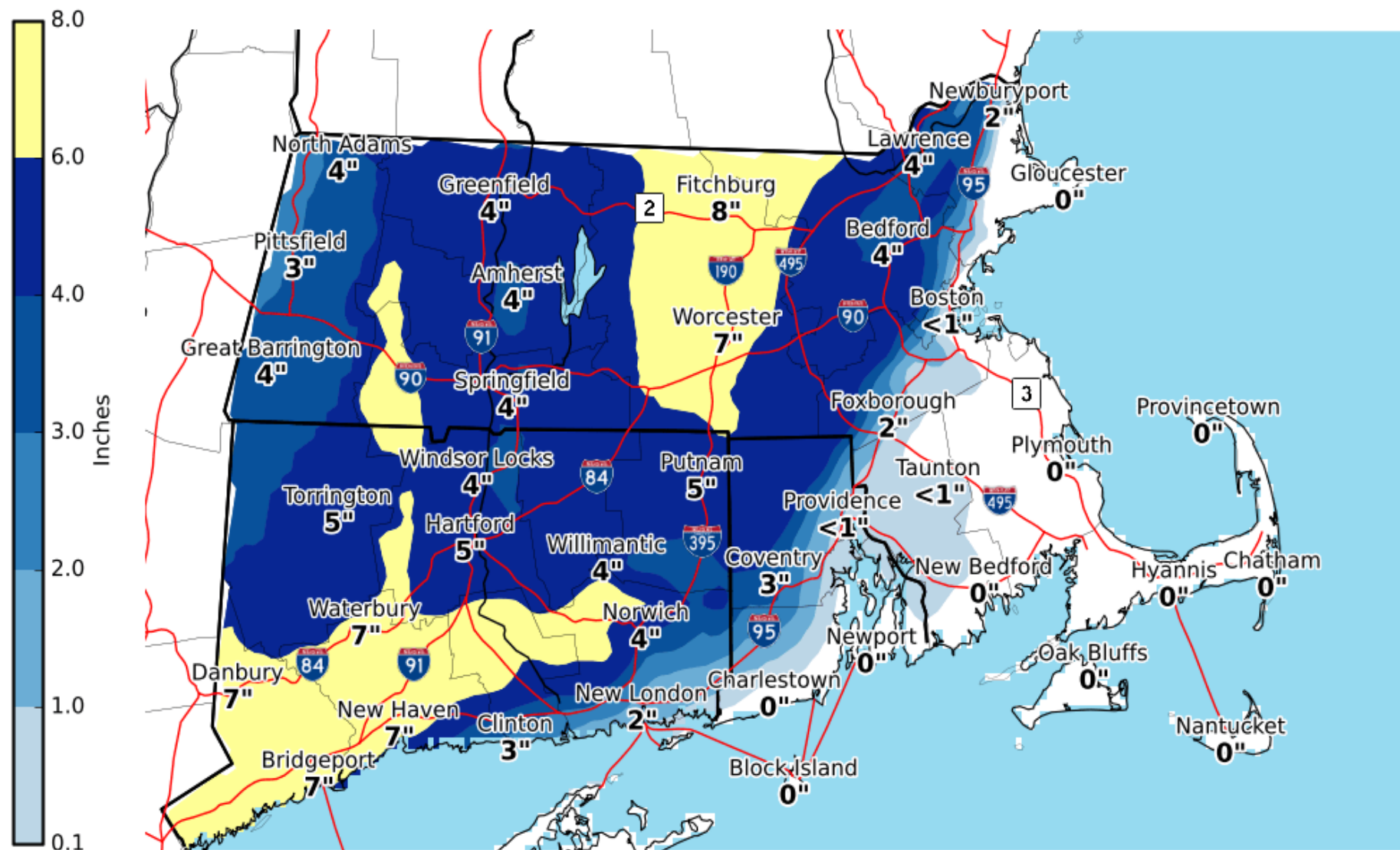
Valid: Monday and Tuesday





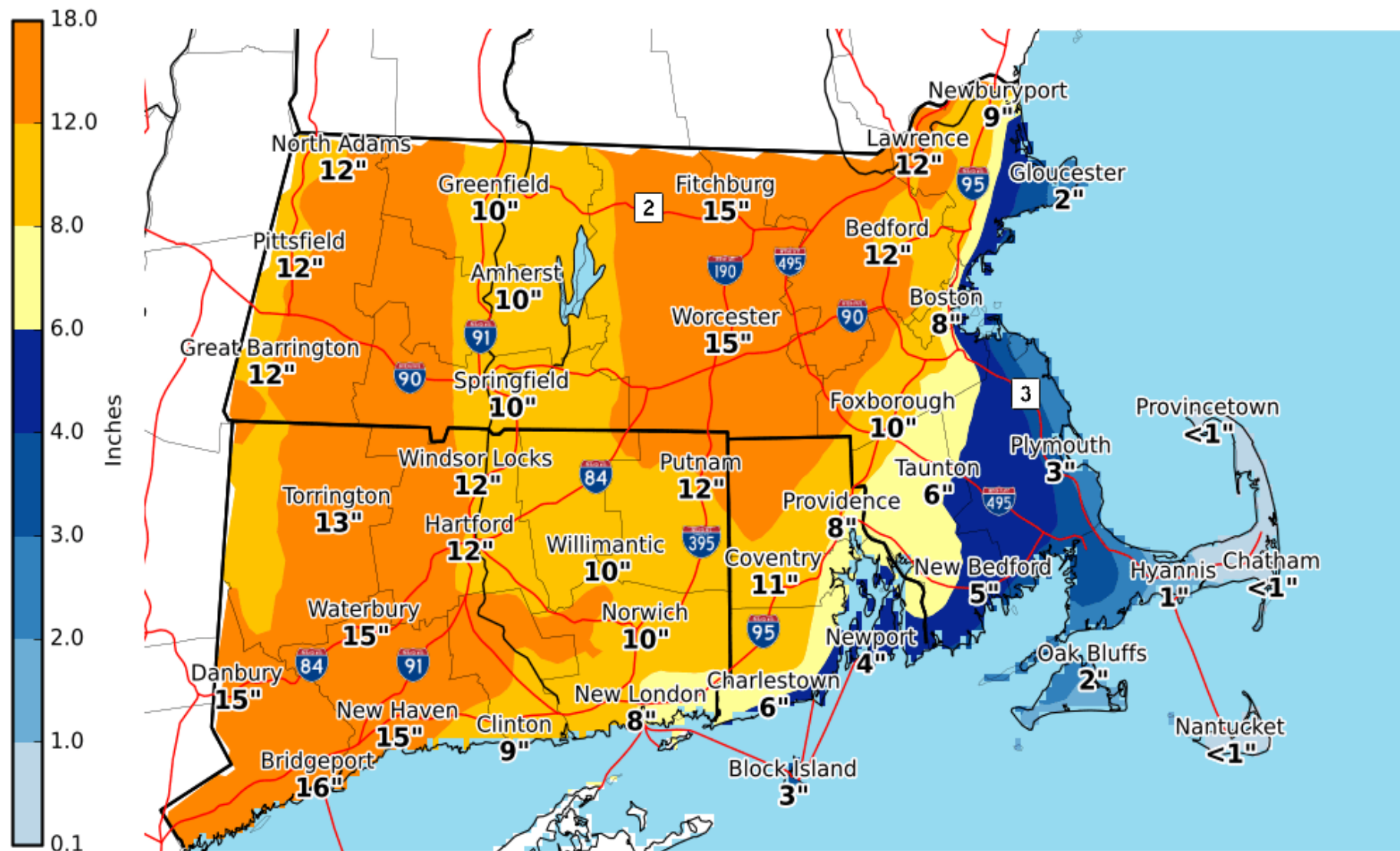
# Low End Amount - 9 in 10 Chance (90%) Of Higher Snowfall

Valid: Monday and Tuesday



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

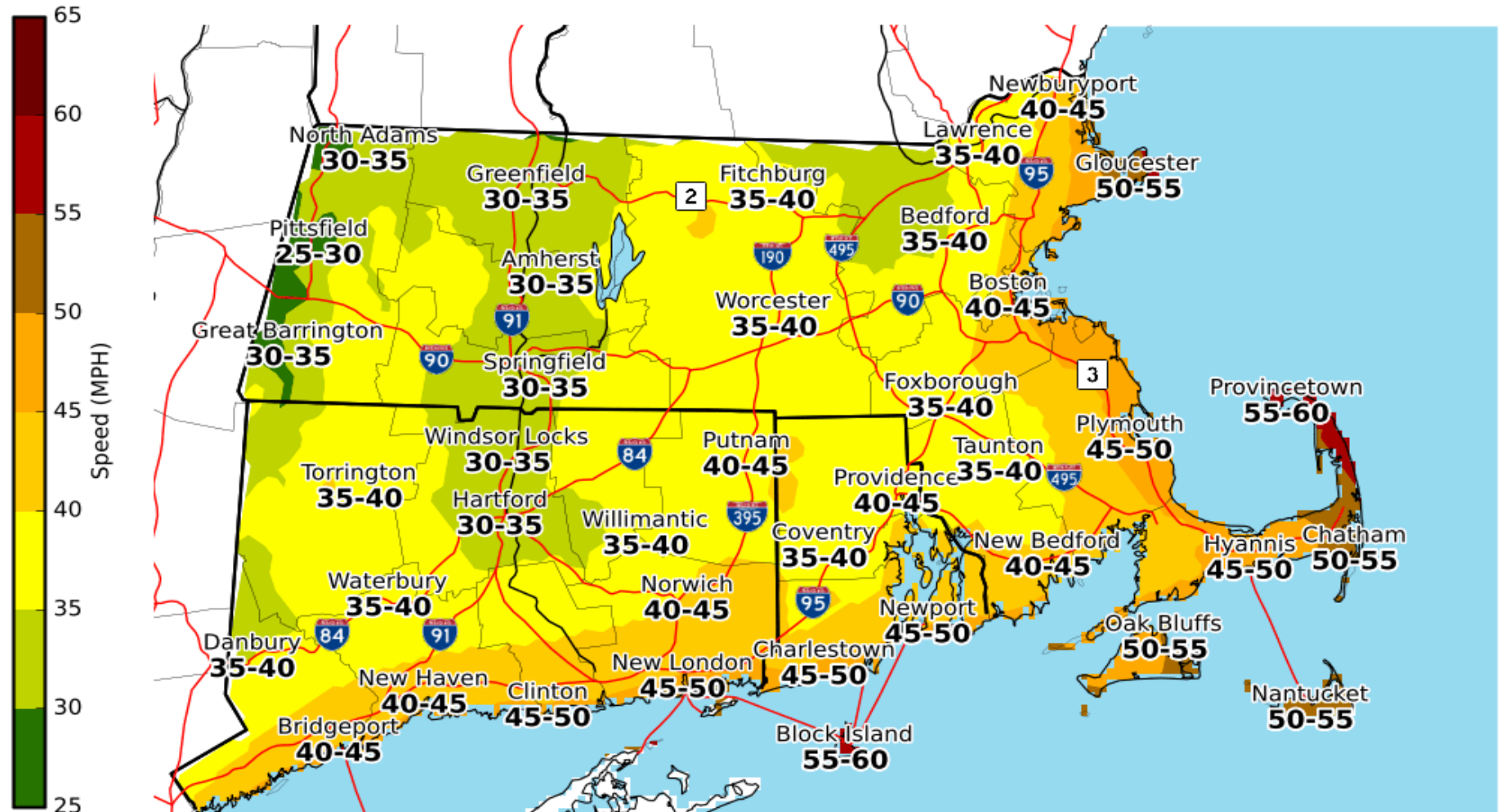
Valid: Monday and Tuesday



## Forecast Maximum Wind Gusts

### Max Wind Gusts (MPH)

Valid: Monday and Tuesday

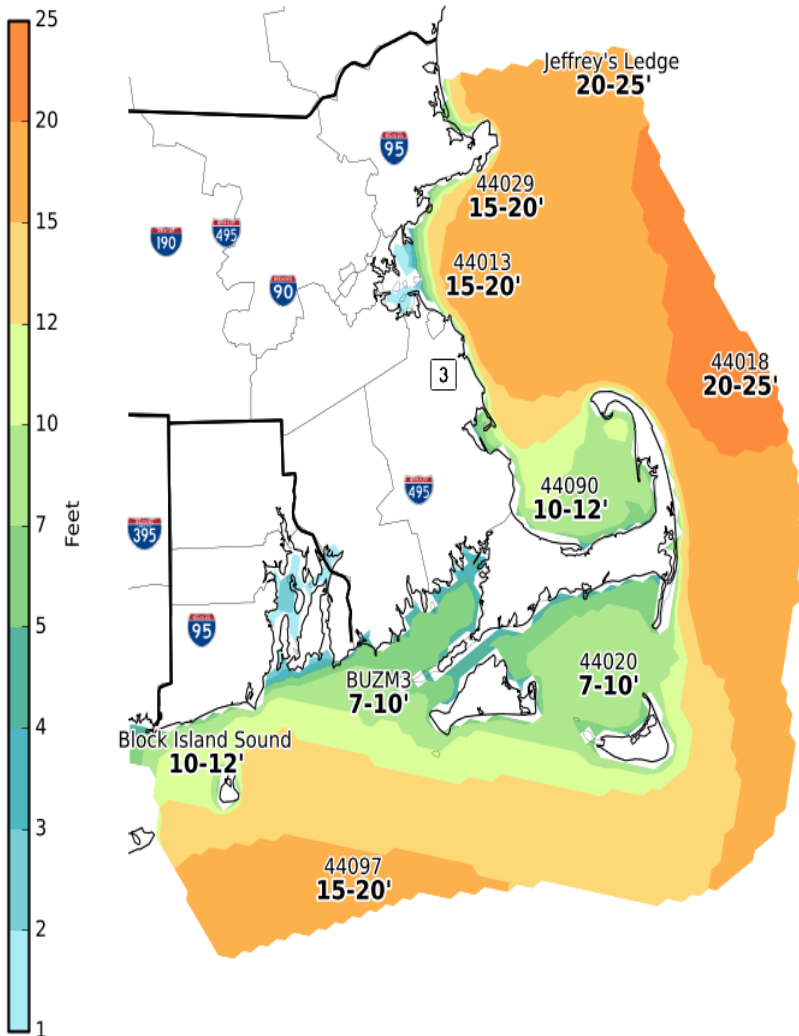




## Forecast Maximum Wave Heights and Wind Gusts (in kts)

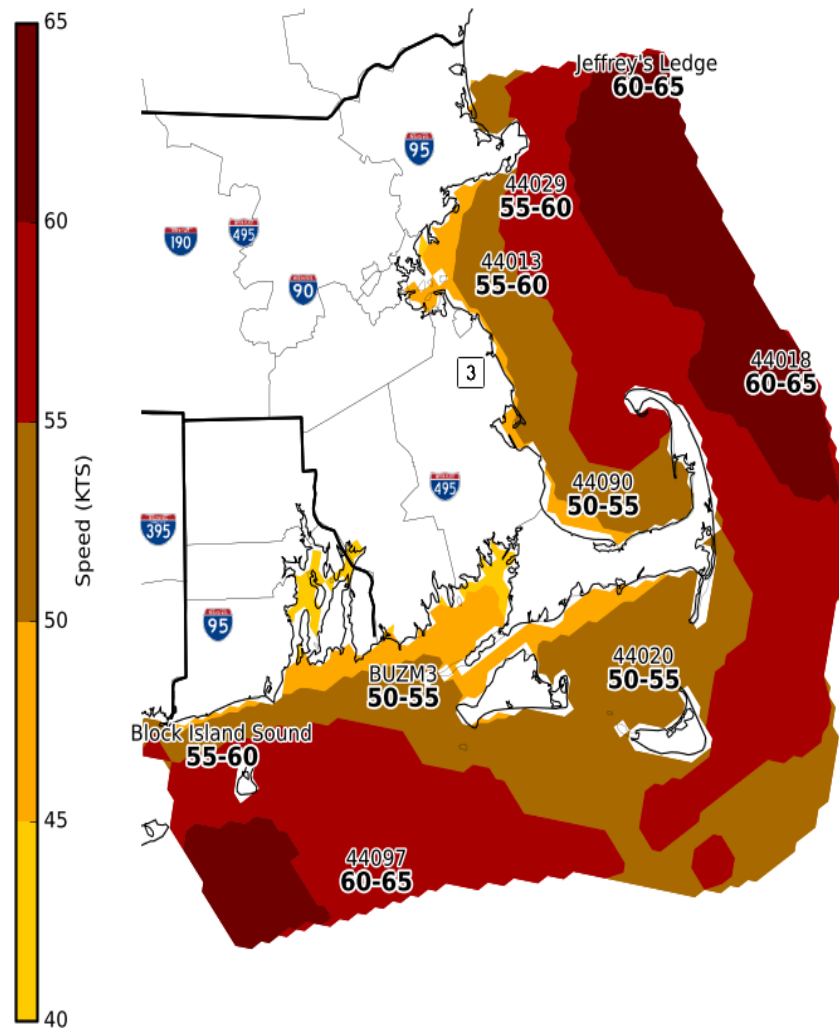
### Maximum Wave Height

Valid: Monday and Tuesday



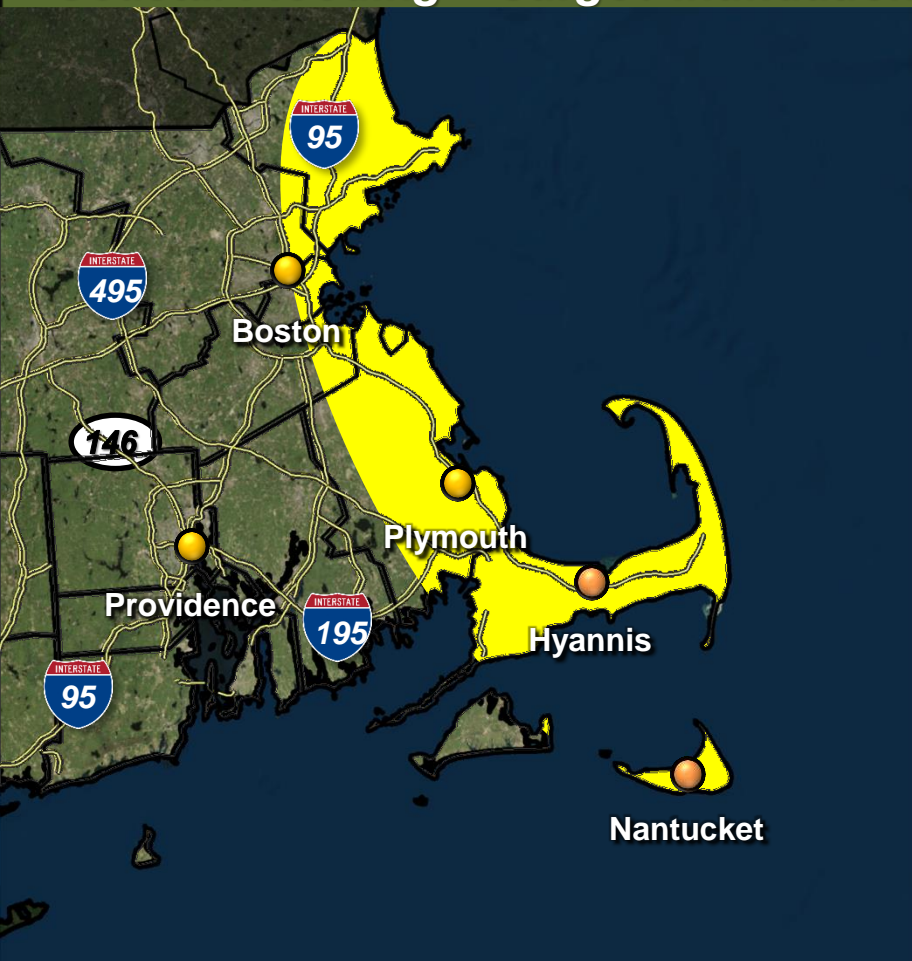
### Max Wind Gusts (KTS)

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.



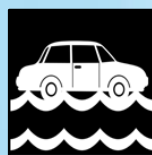
### Timing

- 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

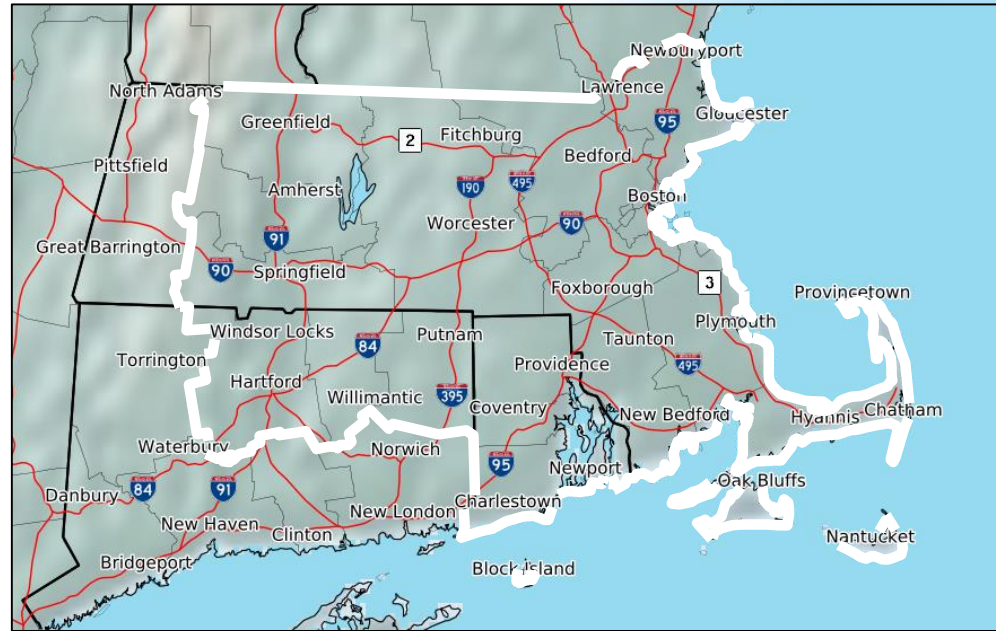
- ✓ **Confidence:** Moderate to high confidence for a winter storm, with greatest uncertainty in where the risk for heaviest snow accumulations occur. Storm intensity, timing, and the rain/snow line will continue to be monitored.
- ✓ **What:**
  -  Odds of a significant snow across much of southern New 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 pm, Sunday, January 31<sup>st</sup>

**Method:** via email



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508-622-3250



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