

Significant Winter Storm Today Into early Tuesday Morning

National Weather Service

Decision Support Briefing # 6

Monday, February 1, 2021 4:50 AM

Current Winter Weather Hazards

What Has Changed?

- ✓ Coastal Flood Watch converted to Coastal Flood Advisory





Winter Weather Hazards



Marine / Coastal Hazards







Wind Related Hazards



Flooding Hazards



Main Points

Hazard	Impacts	Location	Timing
Heavy Snow 	Significant snow accumulations of 8-12 inches or more, along with high snowfall rates, resulting in hazardous travel	A significant part of Southern New England will be impacted. Less likely on Cape Cod and the islands	Today and tonight
Strong Winds 	Power outages possible along with some downed trees	Eastern MA and RI	This afternoon into early Tuesday
Coastal Flood 	Widespread minor coastal flooding and beach erosion. Isolated moderate coastal flooding not out of the question.	Eastern Massachusetts coastline including Nantucket	Tonight and Tuesday
Marine 	High seas and strong winds will result in dangerous conditions for mariners	MA and RI Coastal Waters	Today through Tuesday (winds) and Today through early Wednesday (seas)

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

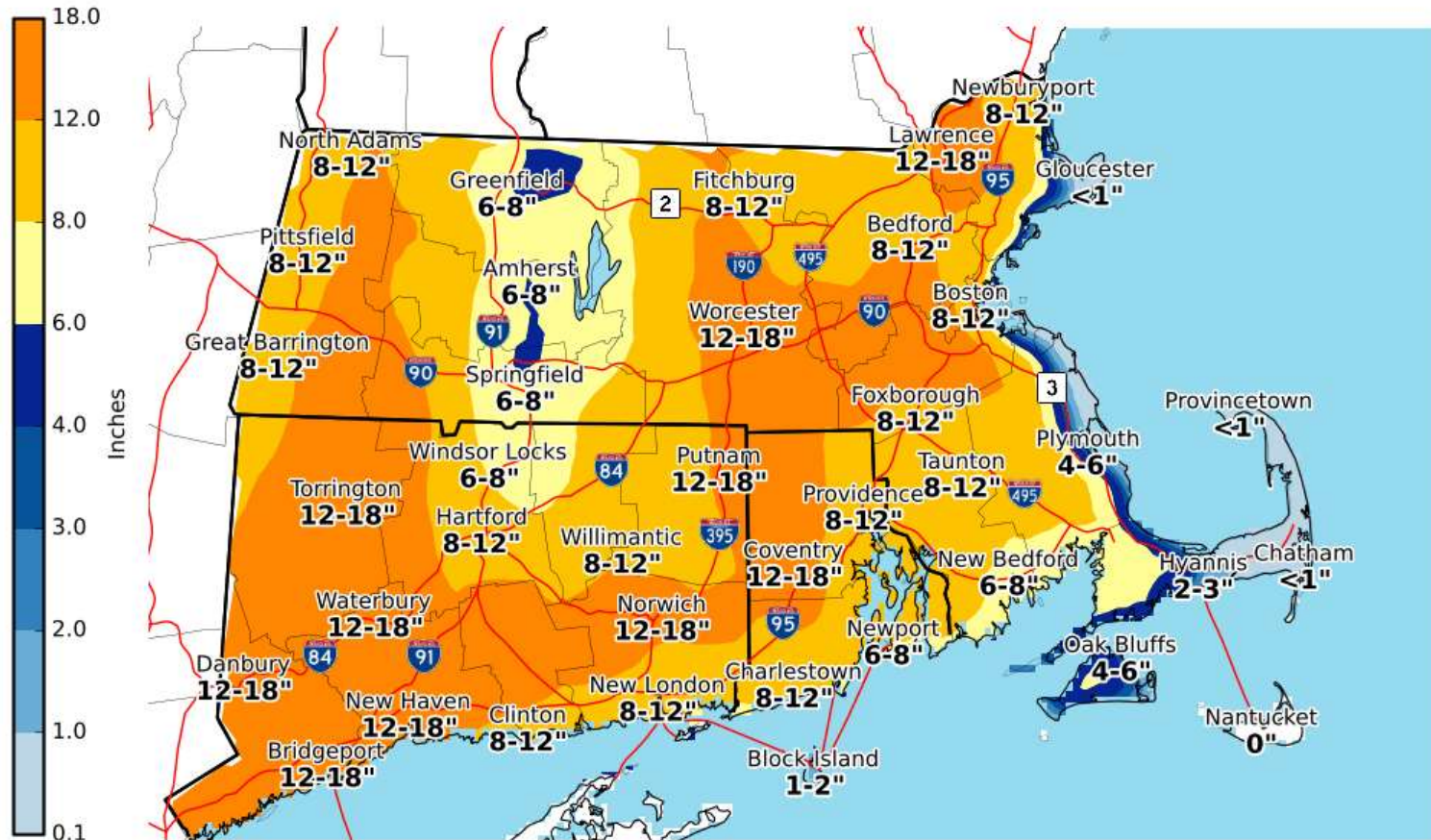
None	Limited	Elevated	Significant	Extreme
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Forecast Storm Total Snowfall

Expected Snowfall - Official NWS Forecast

Valid: Today through Tuesday Evening



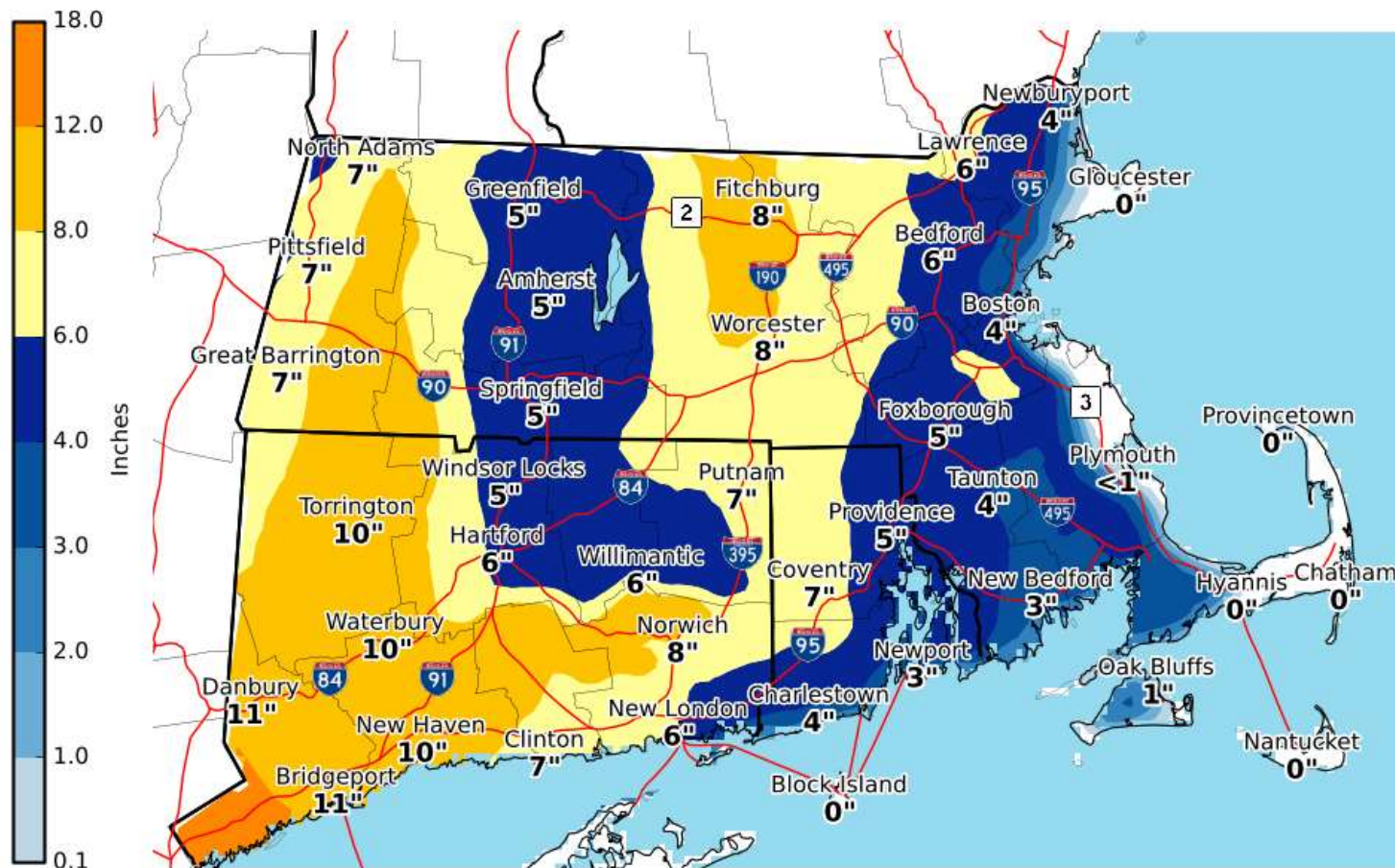
National Weather Service
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02/01/2021 04:22 AM EST

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Forecast Storm Total Snowfall (Best Case)

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

Valid: Today and Tonight

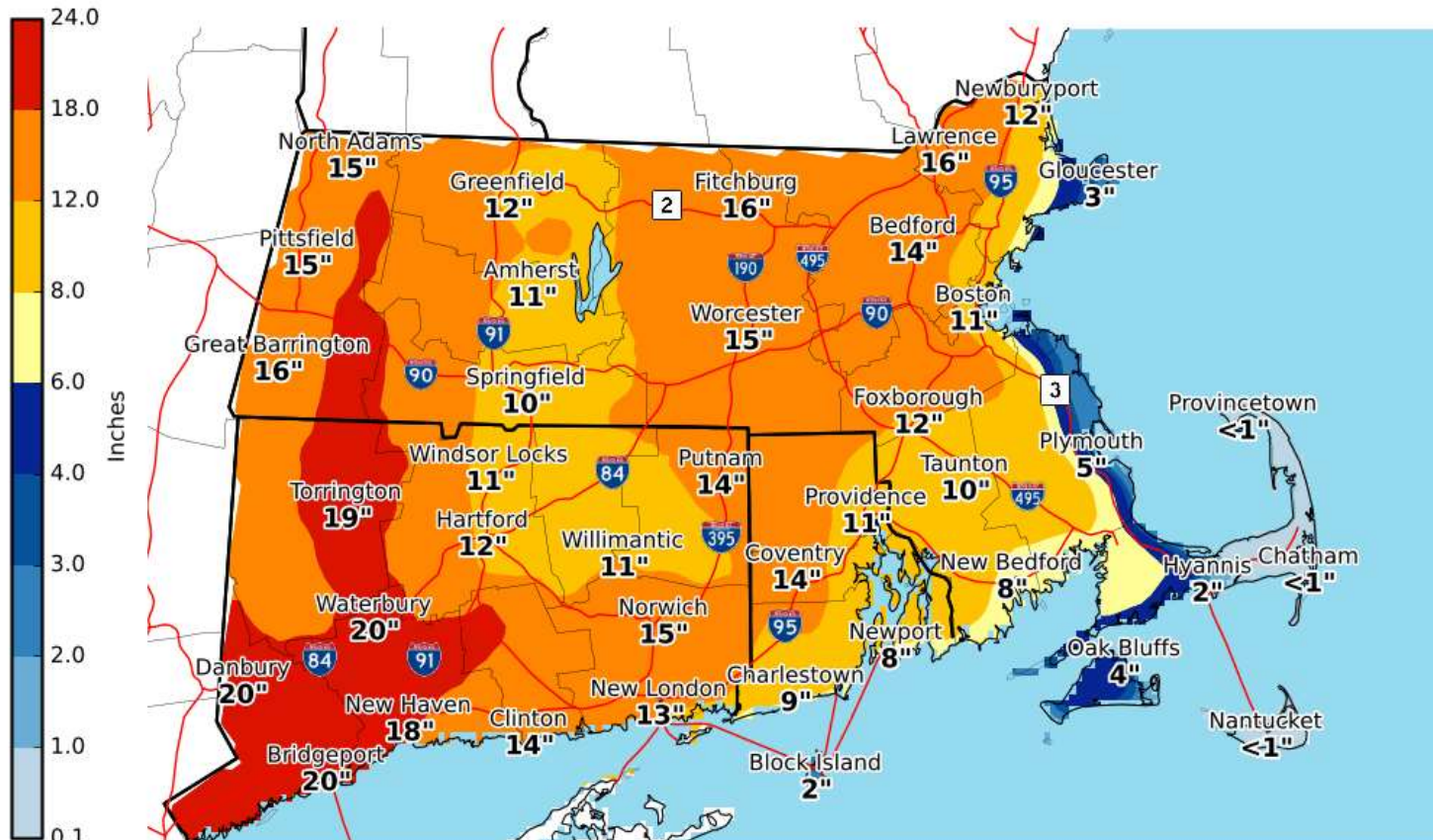


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Forecast Storm Total Snowfall (Worst Case)

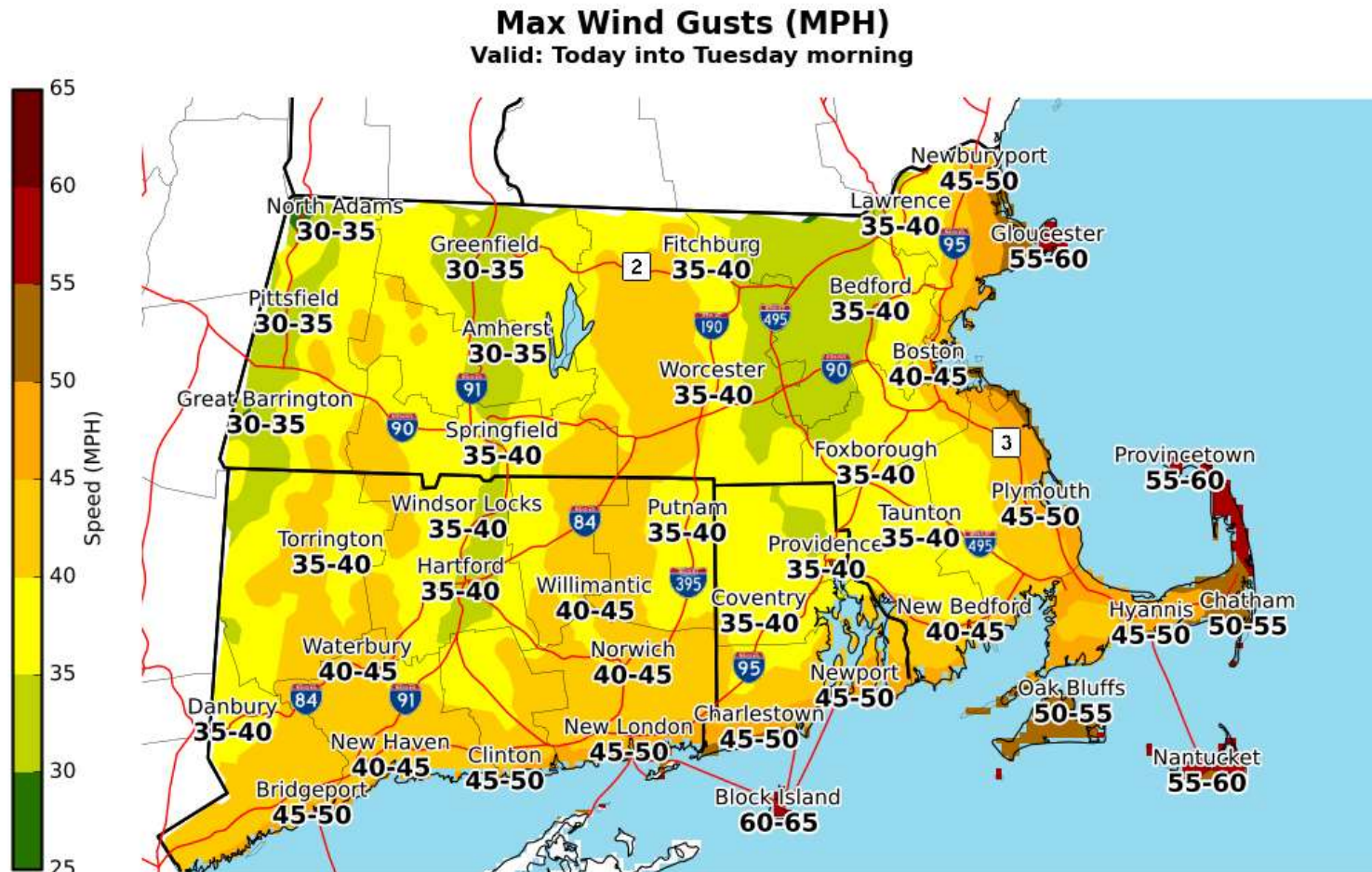
High End Amount - 1 in 10 Chance (10%) Of Higher Snowfall
Valid: Today and Tonight



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Forecast Maximum Wind Gusts



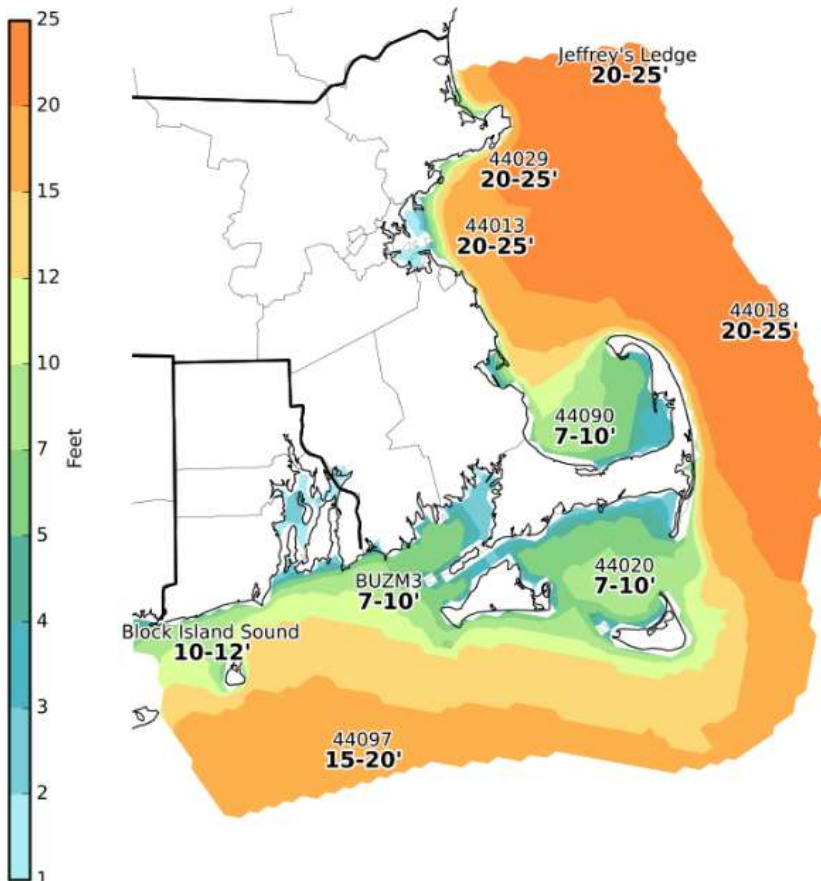
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Forecast Maximum Wave Heights and Wind Gusts (in kts)

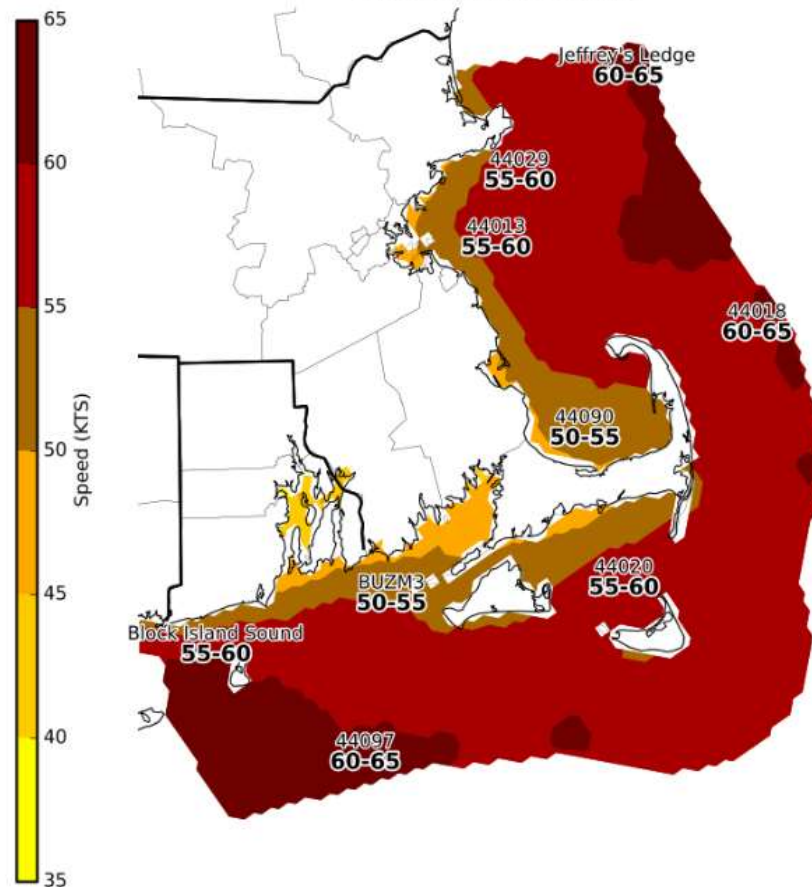
Maximum Wave Height

Valid: Today and Tuesday

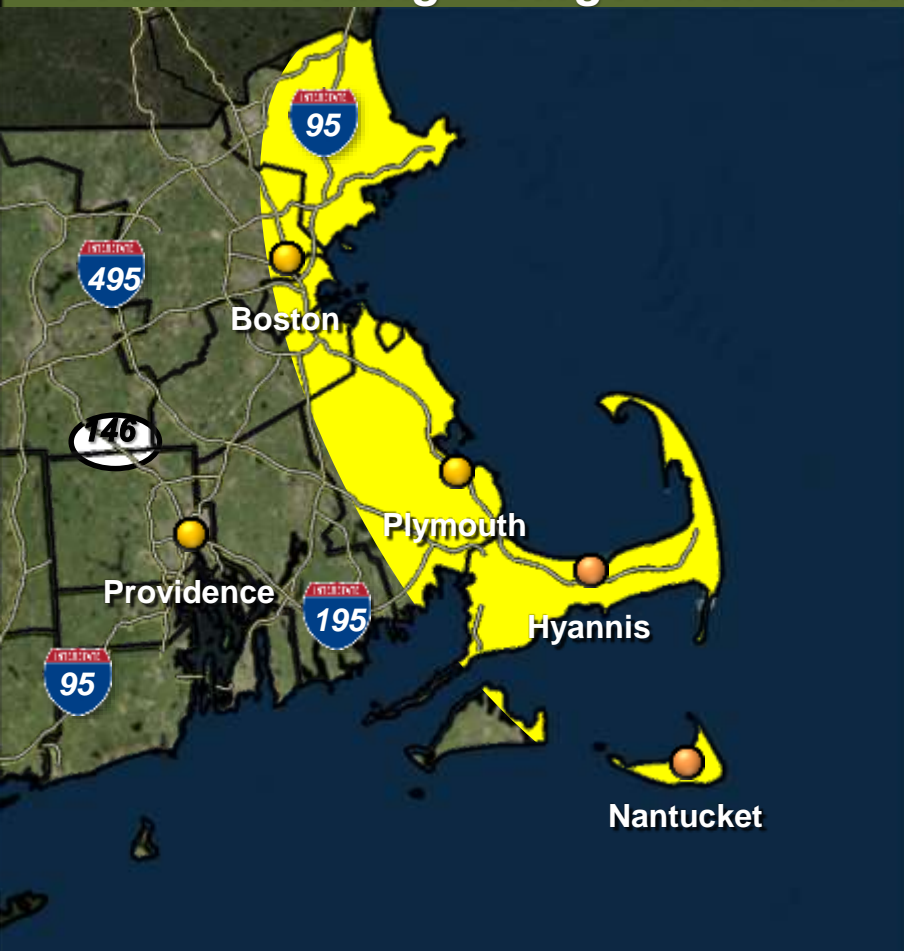


Max Wind Gusts (KTS)

Valid: Today and Tonight



Coastal Flooding – Surge / Inundation: COASTAL FLOOD ADVISORY IN EFFECT



Minor Coastal Flooding

- Widespread minor coastal flooding expected
- 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.
- An isolated area of moderate coastal flooding cannot be ruled out.

Timing

- This afternoon's high tide (Nantucket)
- Tonight and Tuesday afternoon's high tides (entire Advisory area)

	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:** High confidence in snow totals in areas that are all snow. Some uncertainty remains in how far north/west the transition to rain will be (east of I-95). Most snow falls before that transition, though.

- ✓ **What:**



Significant snow across much of southern New England



Strong winds may result in power outages and a few downed trees across eastern MA & RI.



Minor coastal flooding and beach erosion expected along the eastern MA coastline during the high tides tonight and Tuesday...possibly also this afternoon on Nantucket.

- ✓ **Where:** The potential for significant snow accumulations exists across the entire region, least on Cape Cod and the Islands. The strong wind and coastal flood threat will be maximized across eastern MA & RI.

- ✓ **When:** Today Into early Tuesday morning (heavy snow)

Contact and Next Briefing Information

Next Briefing

This is the last briefing on this storm.



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 6 pm, Monday, February 1, 2021.*