

Potential Damaging Winds & Minor Flooding

National Weather Service

Decision Support Briefing # 4

Wednesday, December 23, 2020 4:30 AM

Hazards

What Has Changed?

- ✓ High Wind Watch expanded into central MA, the Berkshires, and portions of CT
- ✓ Increased rainfall amounts





Winter Weather Hazards



Graphic Created
December 23rd, 2020
4:22 AM EST

Marine / Coastal Hazards



Graphic Created
December 23rd, 2020
4:22 AM EST

Wind Related Hazards







Graphic Created
December 23rd, 2020
4:22 AM EST

Flooding Hazards



Graphic Created
December 23rd, 2020
4:22 AM EST

Main Points

Hazard	Impacts	Location	Timing
Damaging Winds 	Possible power outages	Strongest winds over RI and eastern MA	Christmas Eve night into Christmas Morning
Flooding 	Minor River Flooding. Street & highway flooding.	Greatest risk for river flooding is Western MA/CT. Street & highway flooding all areas	Christmas Eve night and Christmas Morning
Dense Fog 	Visibility possibly lowering to less than a quarter mile at times	All areas but greatest risk across CT into Western-Central MA where deepest snowpack exist	Christmas Eve night into Christmas morning
Coastal Flooding 	Minor coastal flooding possible	South coast of MA and RI	Friday morning high tide (around 4 AM)

Summary of Greatest Impacts



Winds: All areas with greatest risk RI & Eastern MA

None

Limited

Elevated

Significant

Extreme



Flooding: All areas with greatest risk CT & Western-Central MA

None

Limited

Elevated

Significant

Extreme



Dense Fog: All areas with greatest risk CT & Western-Central MA

None

Limited

Elevated

Significant

Extreme



Coastal Flooding: South coast of MA and RI

None

Limited

Elevated

Significant

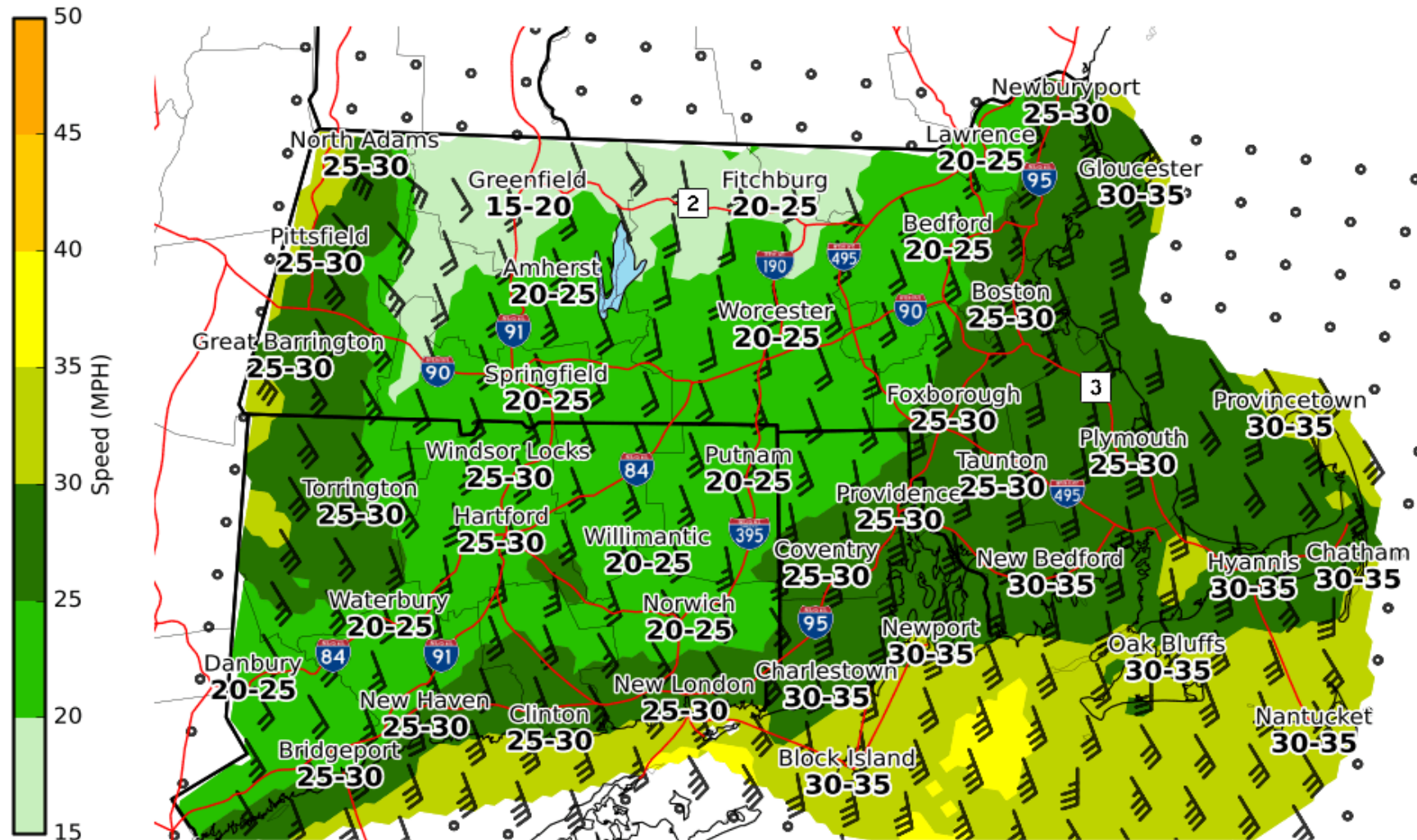
Extreme



Forecast Maximum Sustained Winds

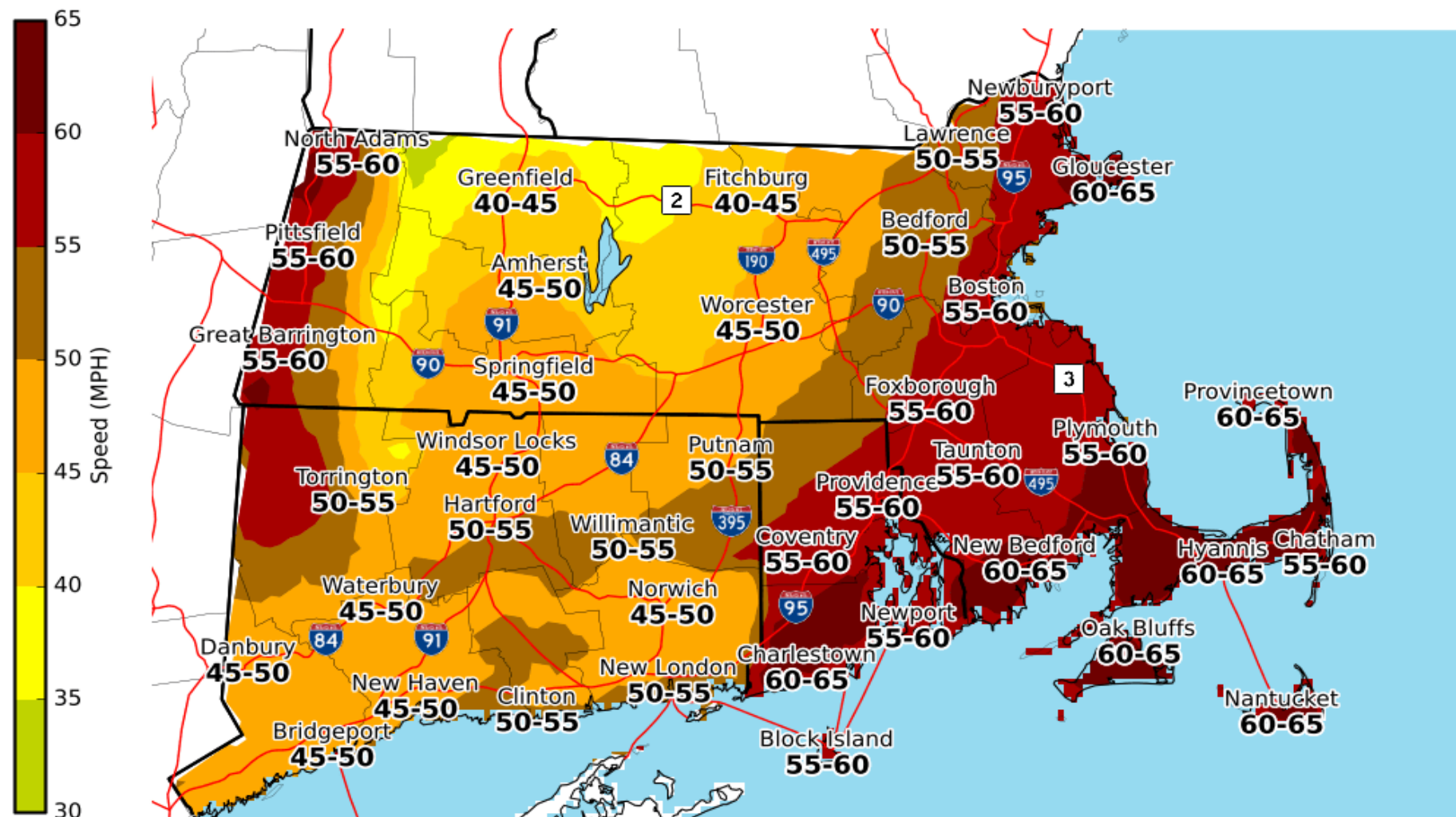
Max Sustained Wind (MPH)

Valid: Thursday Night and Friday



Forecast Maximum Wind Gusts

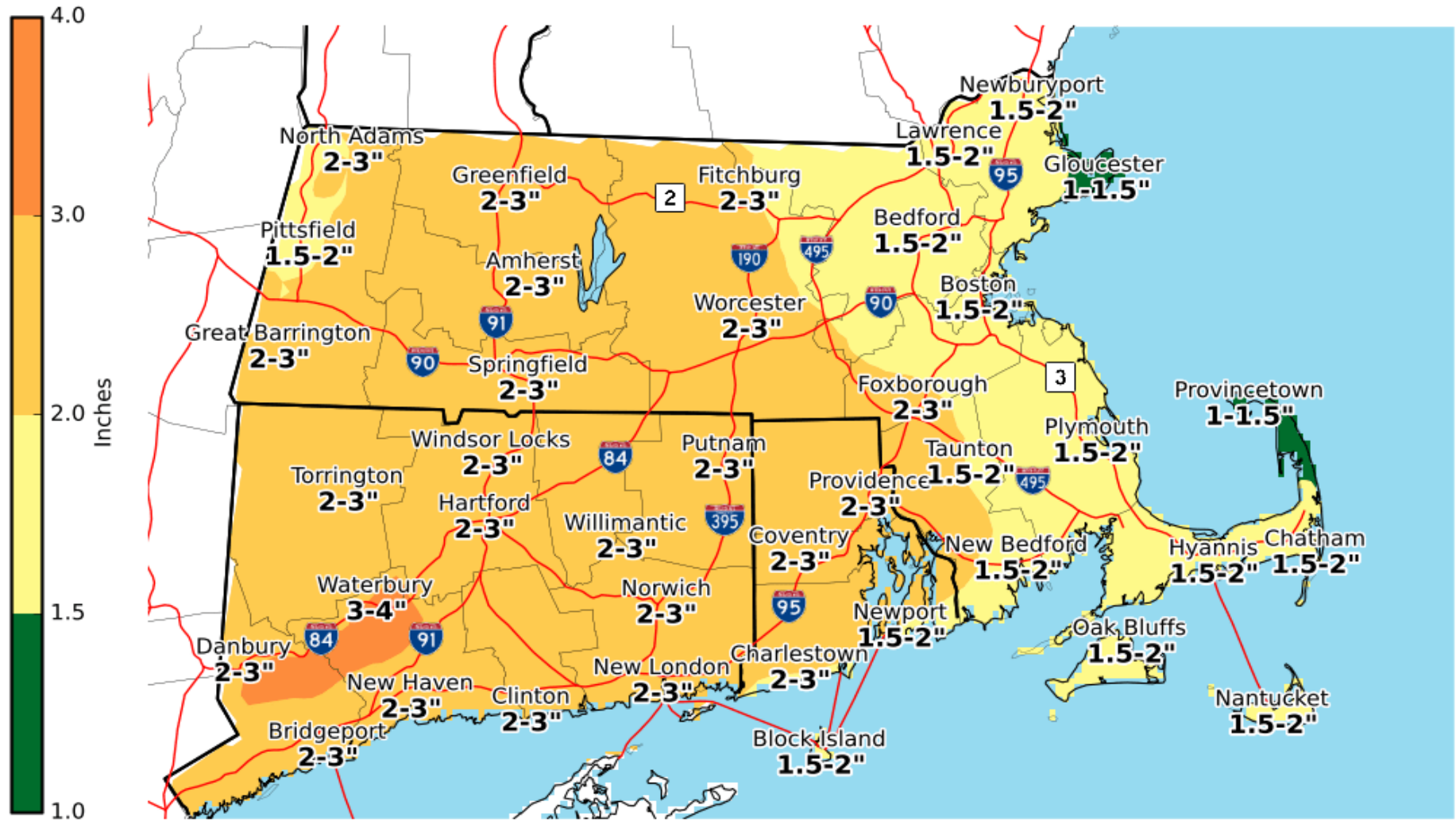
Max Wind Gusts (MPH) Valid: Thursday Night and Friday



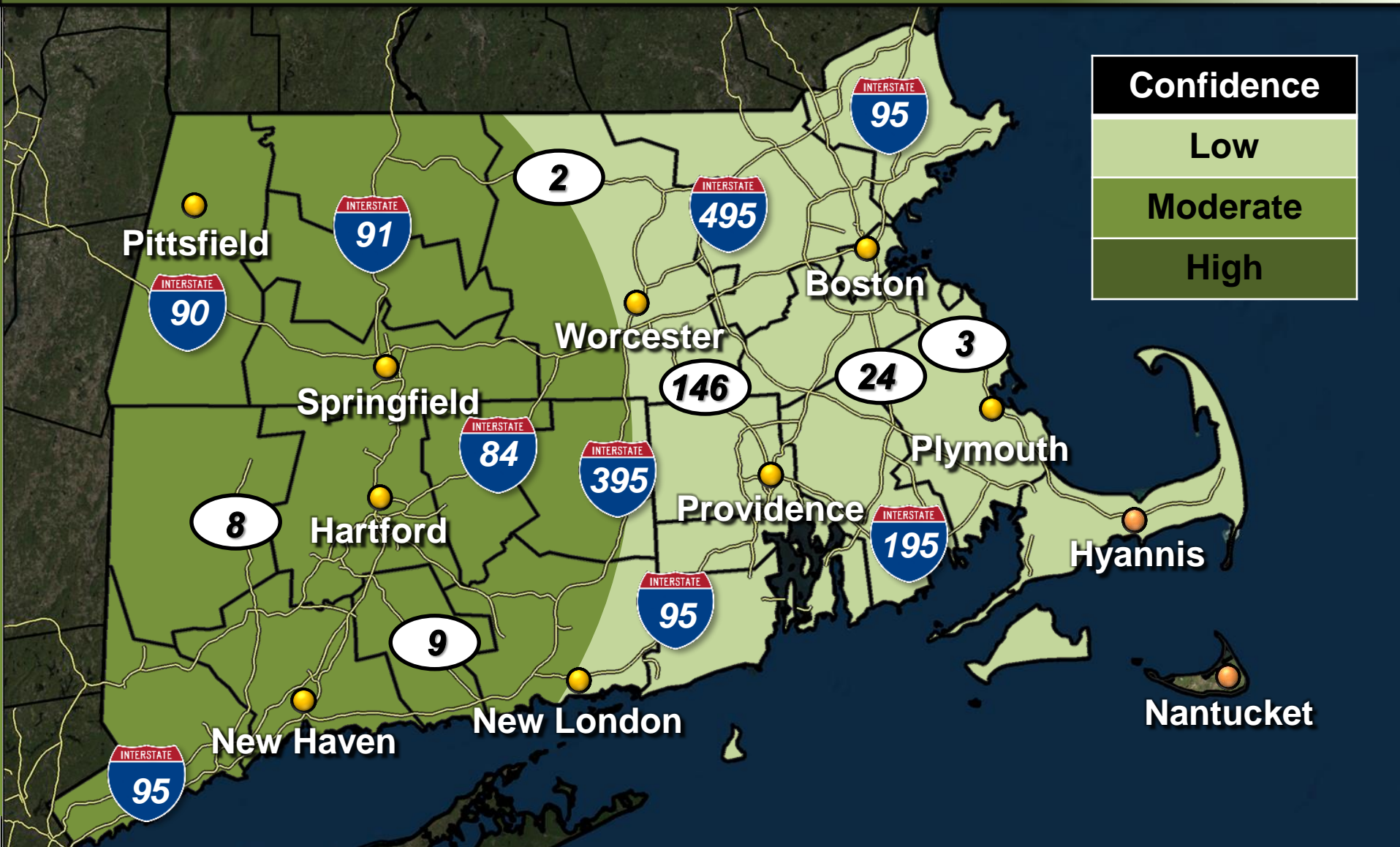
Forecast Storm Total Precipitation

Storm Total Precipitation

Valid: Thursday Night and Friday



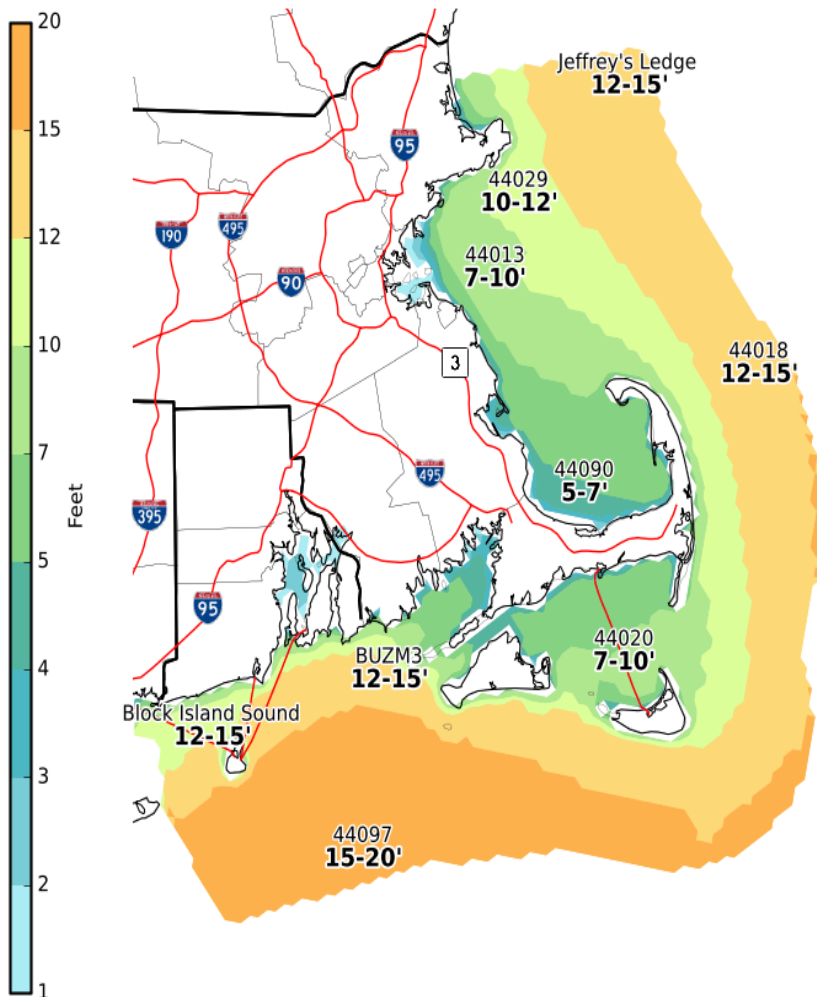
Confidence with respect to flooding ...



Forecast Maximum Wave Heights and Wind Gusts (in kts)

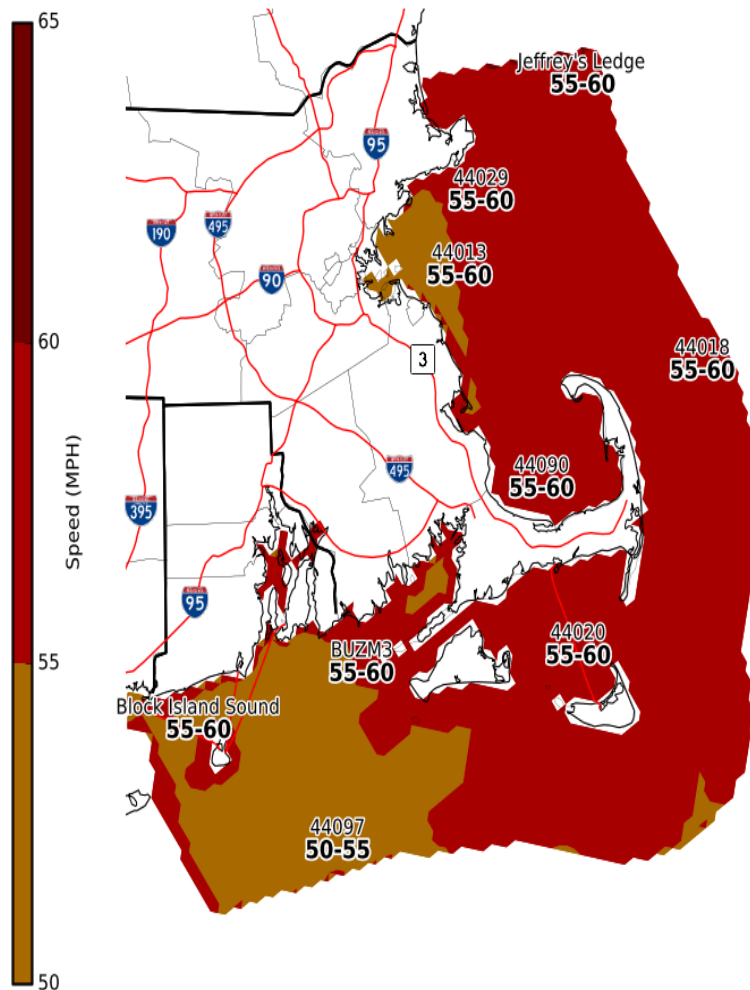
Maximum Wave Height

Valid: Thursday Night and Friday



Max Wind Gusts (MPH)

Valid: 12/24/2020 07:00 AM - 12/25/2020 07:00 PM EST



Threat Event Summary

✓ **Confidence**: moderate confidence on a high impact weather event

✓ **What:**



25-40 mph sustained winds with gusts up to 65 mph, resulting in a risk for scattered power outages.



1.5 to 2.5 inches of rainfall with locally higher amounts up to 3 inches is possible. Minor river flooding & street & highway flooding



Areas of dense fog possible with visibility reduced to a quarter mile or less at times. Potential travel impacts.



Minor coastal flooding possible along the south coast of MA & RI.

✓ **Where:** All of Southern New England (MA, RI & CT)

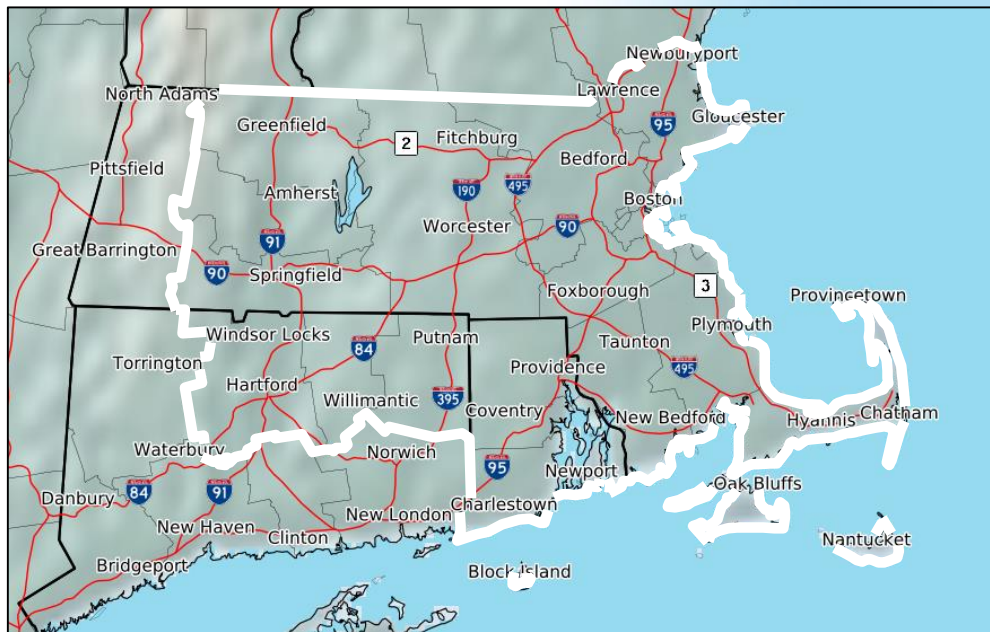
✓ **When:** Christmas Eve night into Christmas morning

Contact and Next Briefing Information

Next Briefing

When: 5 pm, Wednesday, December 23rd

Method: via email



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Disclaimer: The information contained within this briefing is time-sensitive,
do not use after 5 pm, Wednesday, December 23, 2020

