

Potential Damaging Winds & Minor Flooding

National Weather Service
Decision Support Briefing # 7
Thursday, December 24, 2020 4:06 PM

What Has Changed?

- ✓ Coastal Flood Advisory for south facing beaches across portions of southern MA & RI





Winter Weather Hazards



Graphic Created
December 24th, 2020
4:07 PM EST

Marine / Coastal Hazards



Graphic Created
December 24th, 2020
4:07 PM EST

Wind Related Hazards







Graphic Created
December 24th, 2020
4:07 PM EST

Flooding Hazards



Graphic Created
December 24th, 2020
4:07 PM EST

Main Points

Hazard	Impacts	Location	Timing
Damaging Winds 	Numerous power outages	Strongest winds over RI & eastern MA	Ramping up tonight into Christmas Morning Strongest 5 AM - Noon
Flooding 	Minor River Flooding. Street & highway flooding.	Greatest risk for river flooding is Western MA/CT. Street & highway flooding all areas	Christmas Eve night & 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 facing beaches across portions of southern MA & 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

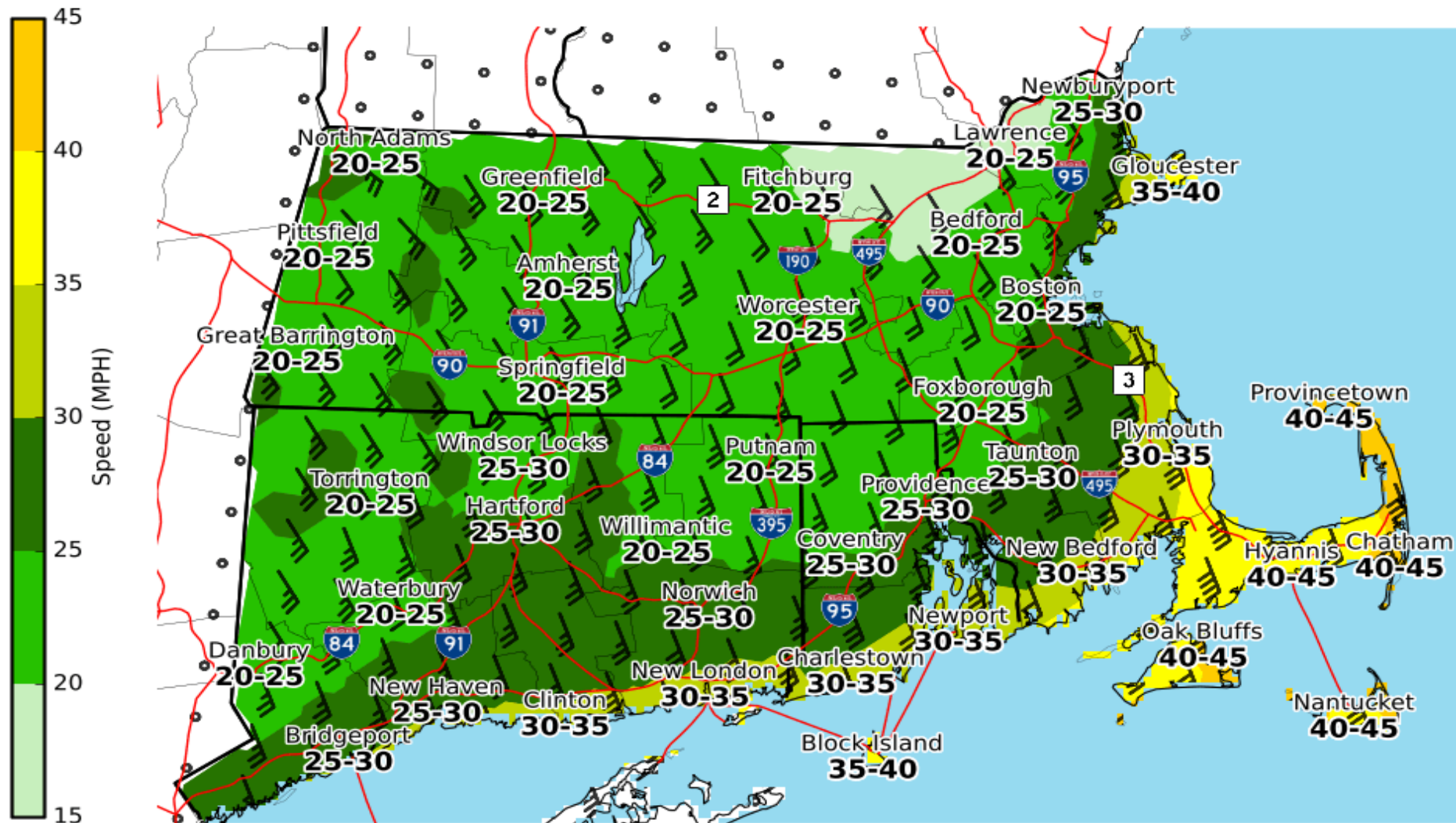
Extreme



Forecast Maximum Sustained Winds (in MPH)

Max Sustained Wind (MPH)

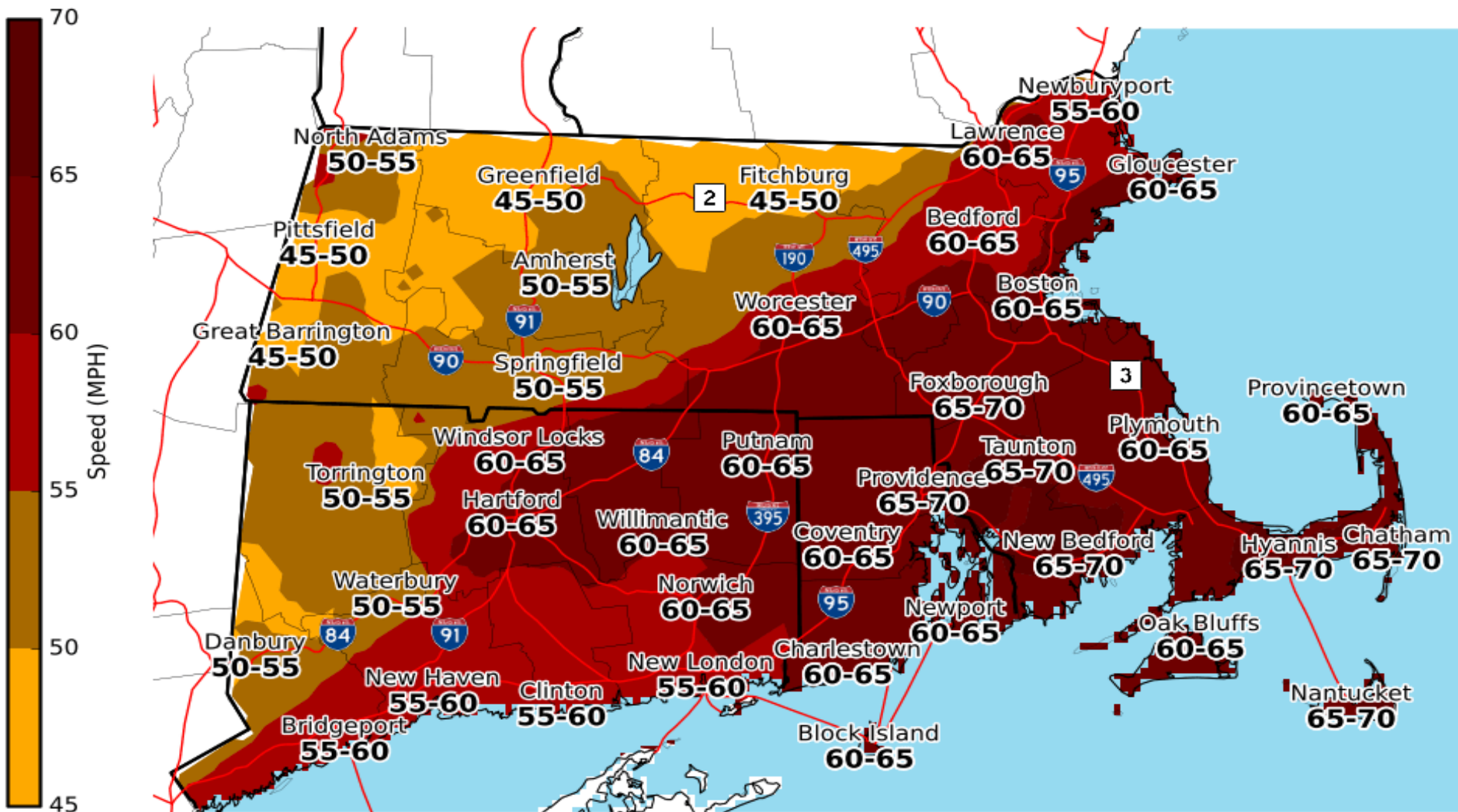
Valid: Tonight and Friday



Forecast Maximum Wind Gusts (in MPH)

Max Wind Gusts (MPH)

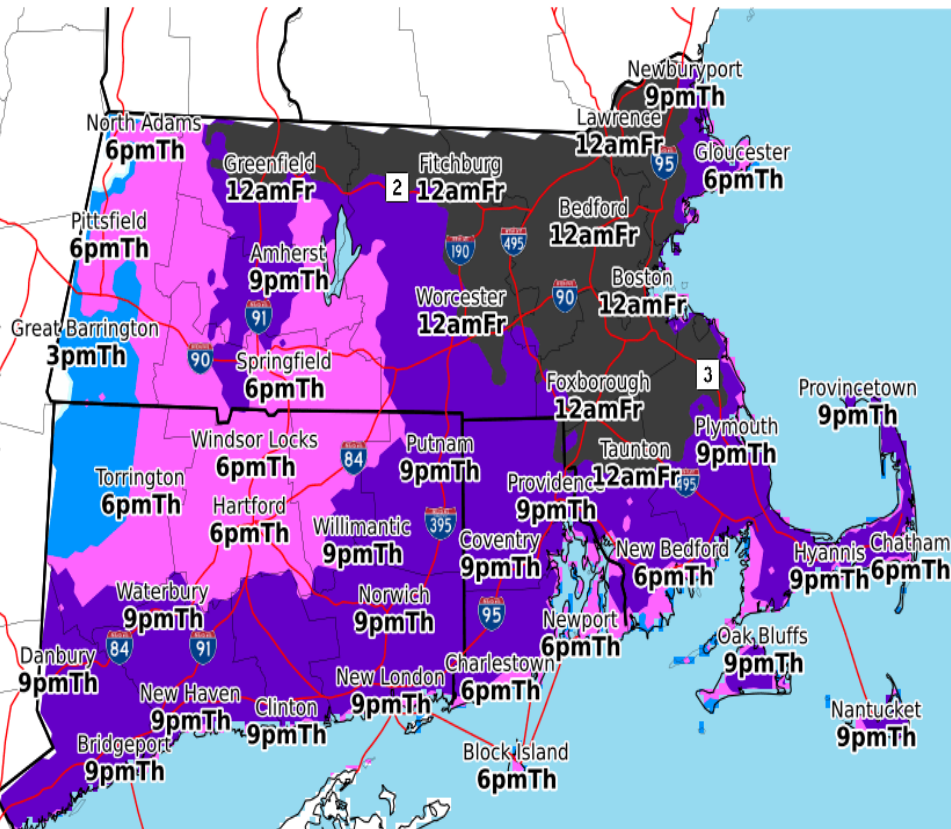
Valid: Tonight and Friday



Approximate start & end time of 35 mph gusts

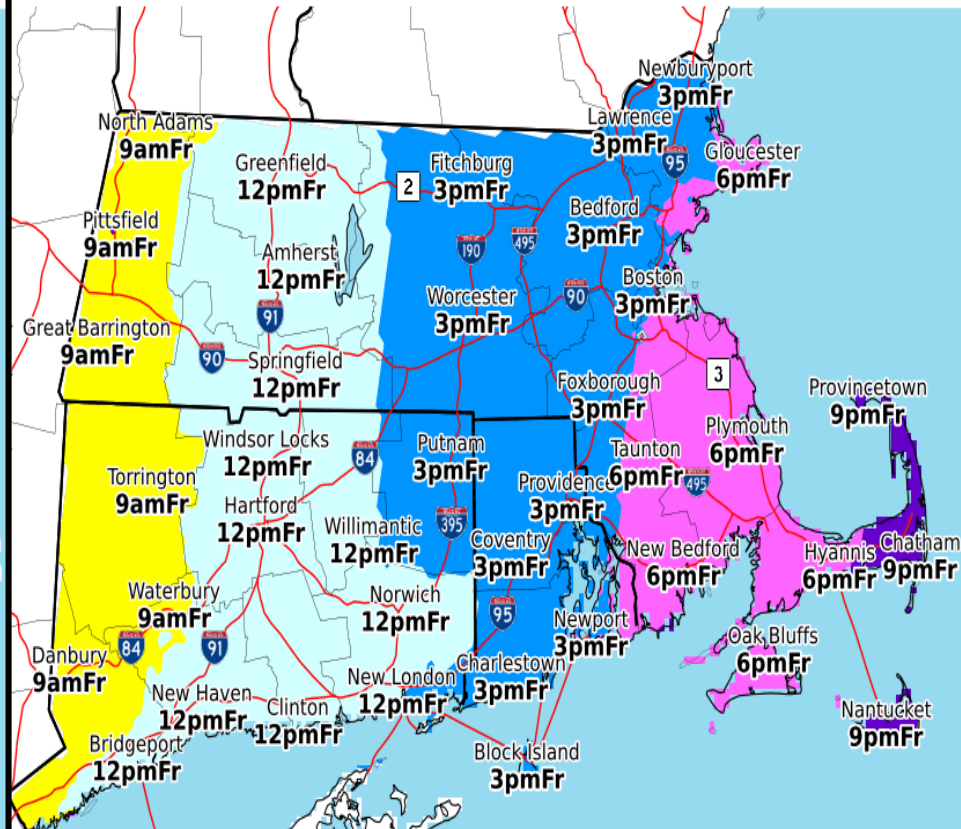
Onset Time of 35 mph Wind Gusts

Valid: Tonight and Friday



End Time of 35 mph Wind Gusts

Valid: Tonight and Friday

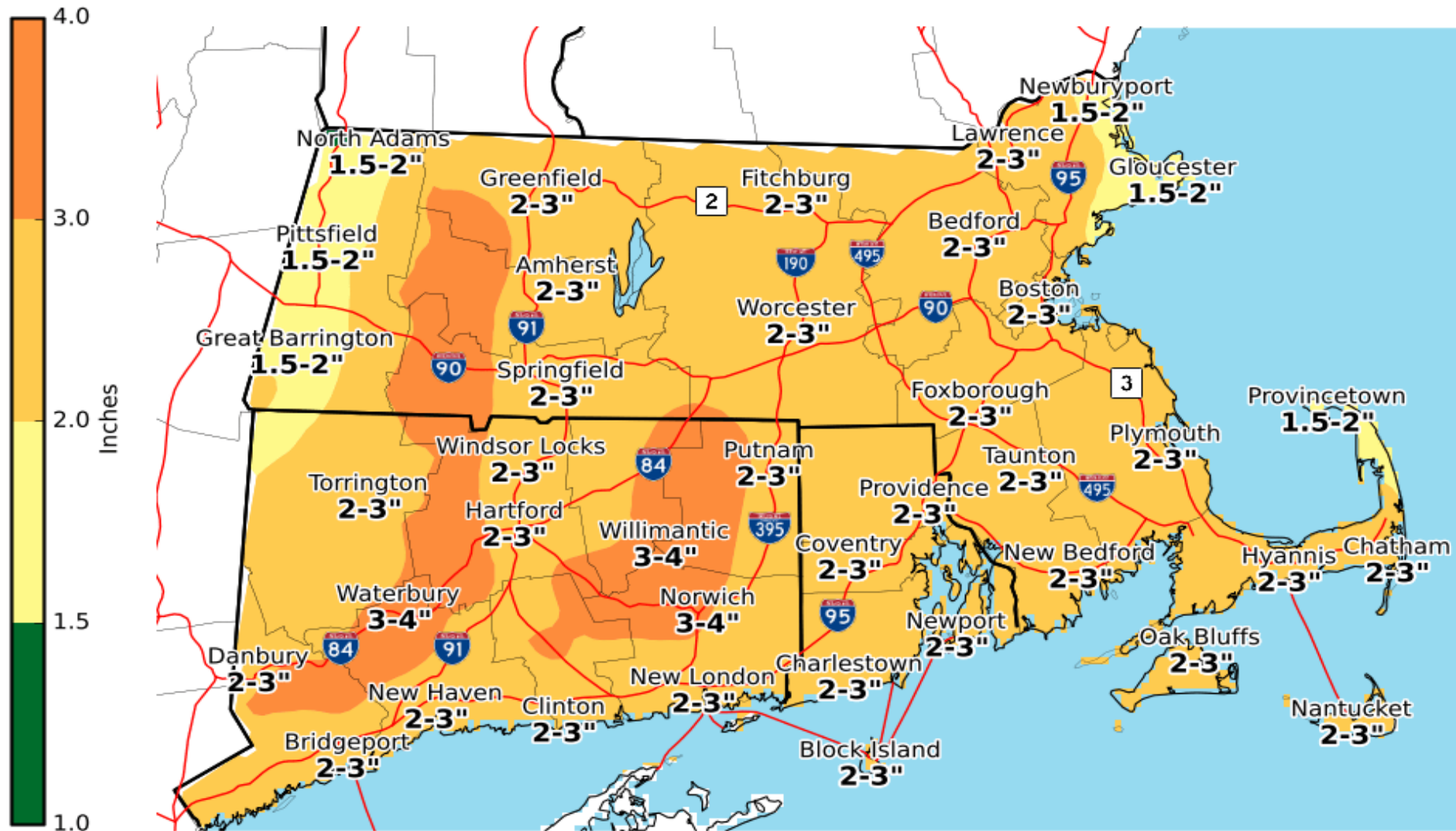


Please note* this is the approximate start & end time of 35 mph gusts
The strongest 50+ mph gust window is from 5 AM until noon on Friday

Forecast Storm Total Precipitation

Storm Total Precipitation

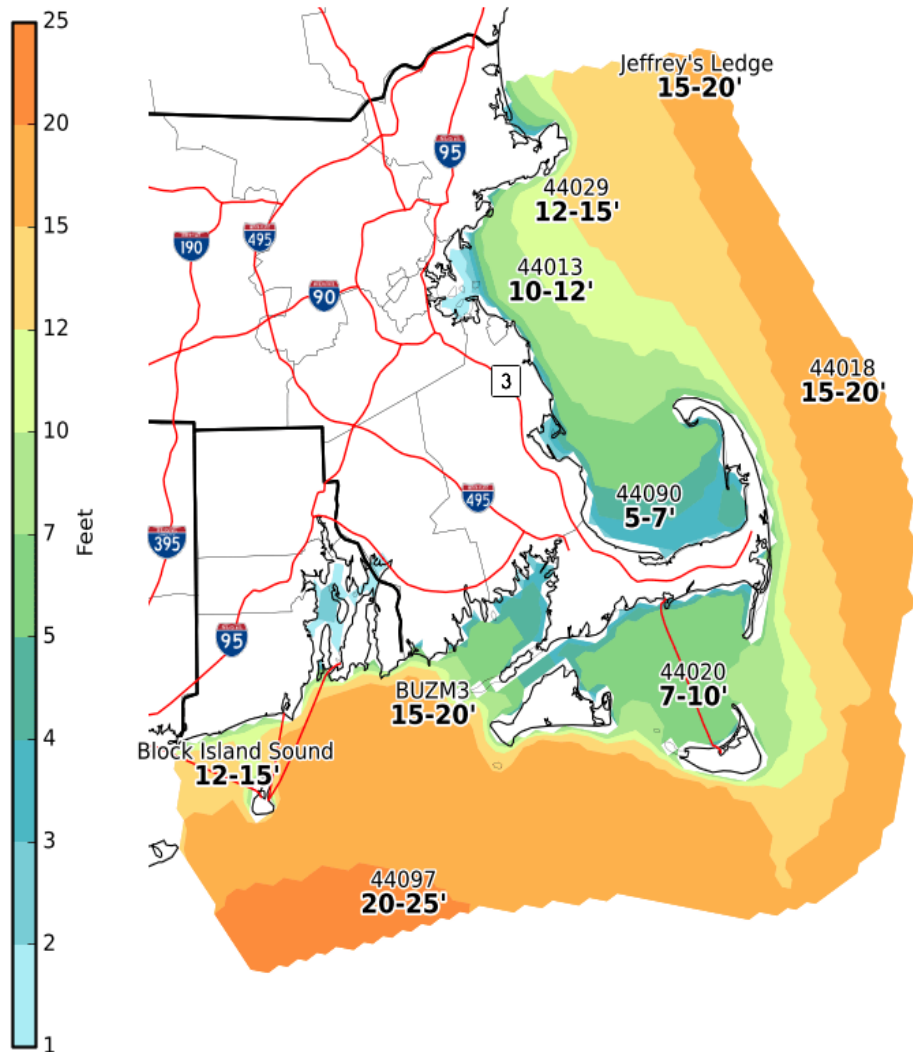
Valid: Tonight through Friday



Forecast Maximum Wave Heights and Wind Gusts (in kts)

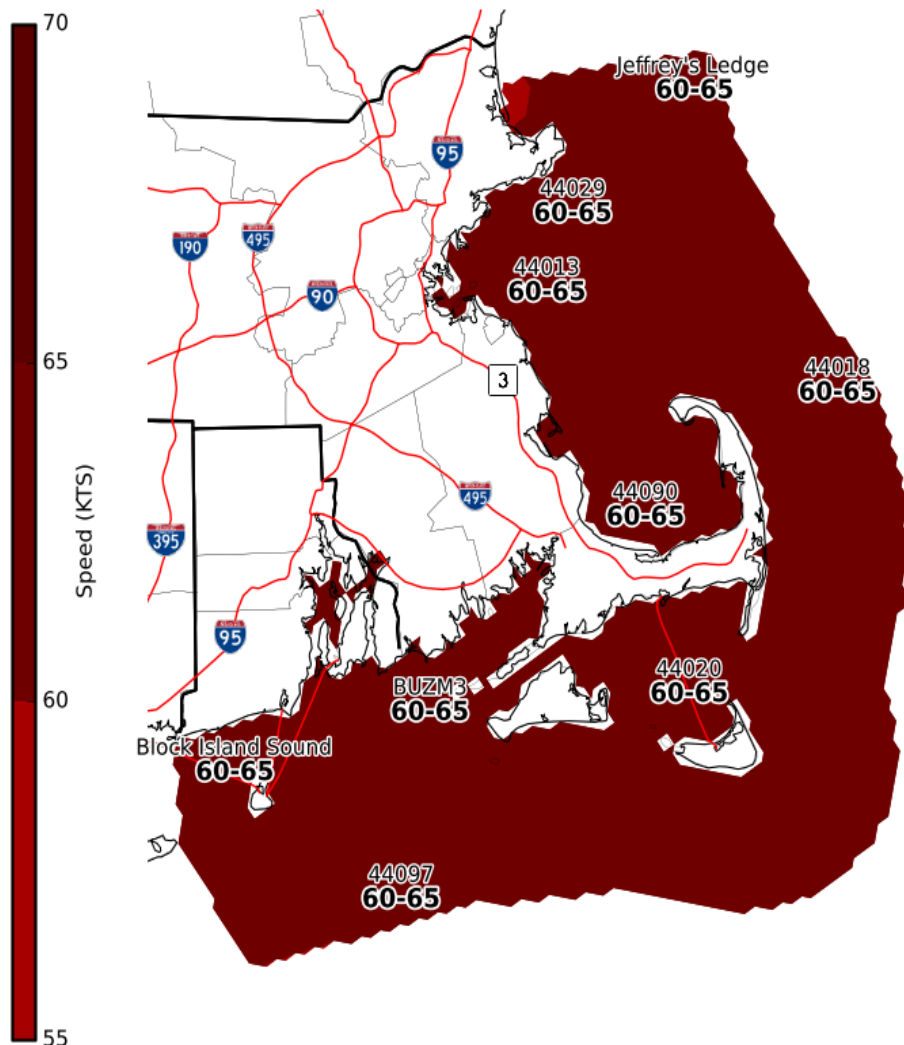
Maximum Wave Height

Valid: Tonight and Friday



Max Wind Gusts (KTS)

Valid: Tonight and Friday



Threat Event Summary

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

✓ **What:**



20-45 mph sustained winds with gusts up to 65 mph with isolated 75 mph gusts, resulting in a risk for numerous power outages.



1.5 to 3 inches of rainfall with locally higher amounts 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 across south facing beaches along the south coast of MA & RI.

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

✓ **When:** Tonight through Christmas morning

Contact and Next Briefing Information

Next Briefing

Not anticipated unless there are major changes to the forecast



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Disclaimer: *The information contained within this briefing is time-sensitive, do not use after 6 am, Friday, December 25, 2020*

