

Potential Damaging Winds & Minor Flooding

National Weather Service

Decision Support Briefing # 5

Wednesday, December 23, 2020 4:01 PM

What Has Changed?

- ✓ All High Wind & Storm Watches have become Warnings. Wind Advisory for western & central MA.
- ✓ Flood Watch for all of southern New England
- ✓ Increased & wind speeds/gusts & rain amounts



Winter Weather Hazards



Marine / Coastal Hazards







Wind Related Hazards



Flooding Hazards



Main Points

Hazard	Impacts	Location	Timing
Damaging Winds 	Numerous power outages	Strongest winds over RI & 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 & 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

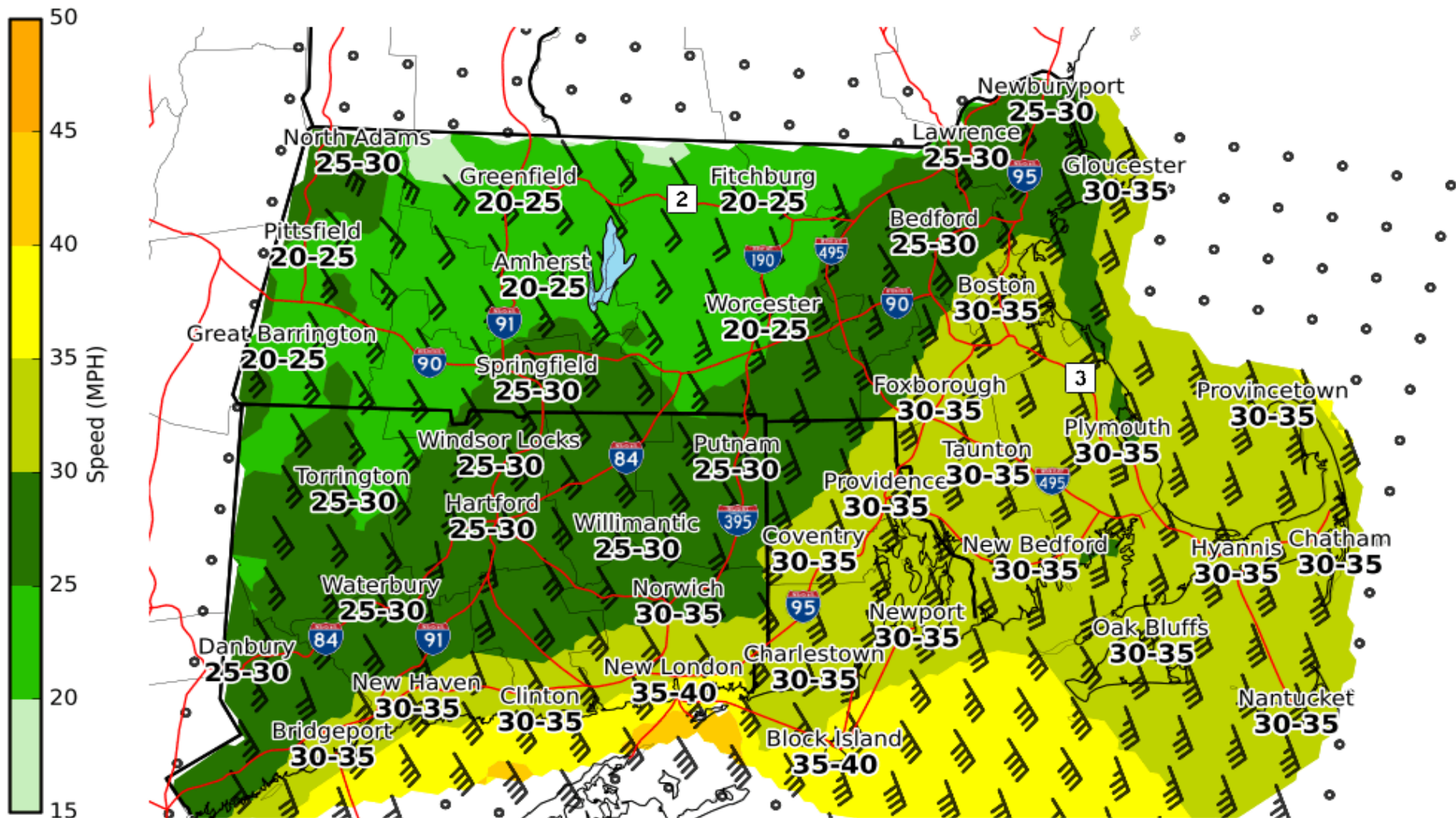
Extreme



Forecast Maximum Sustained Winds

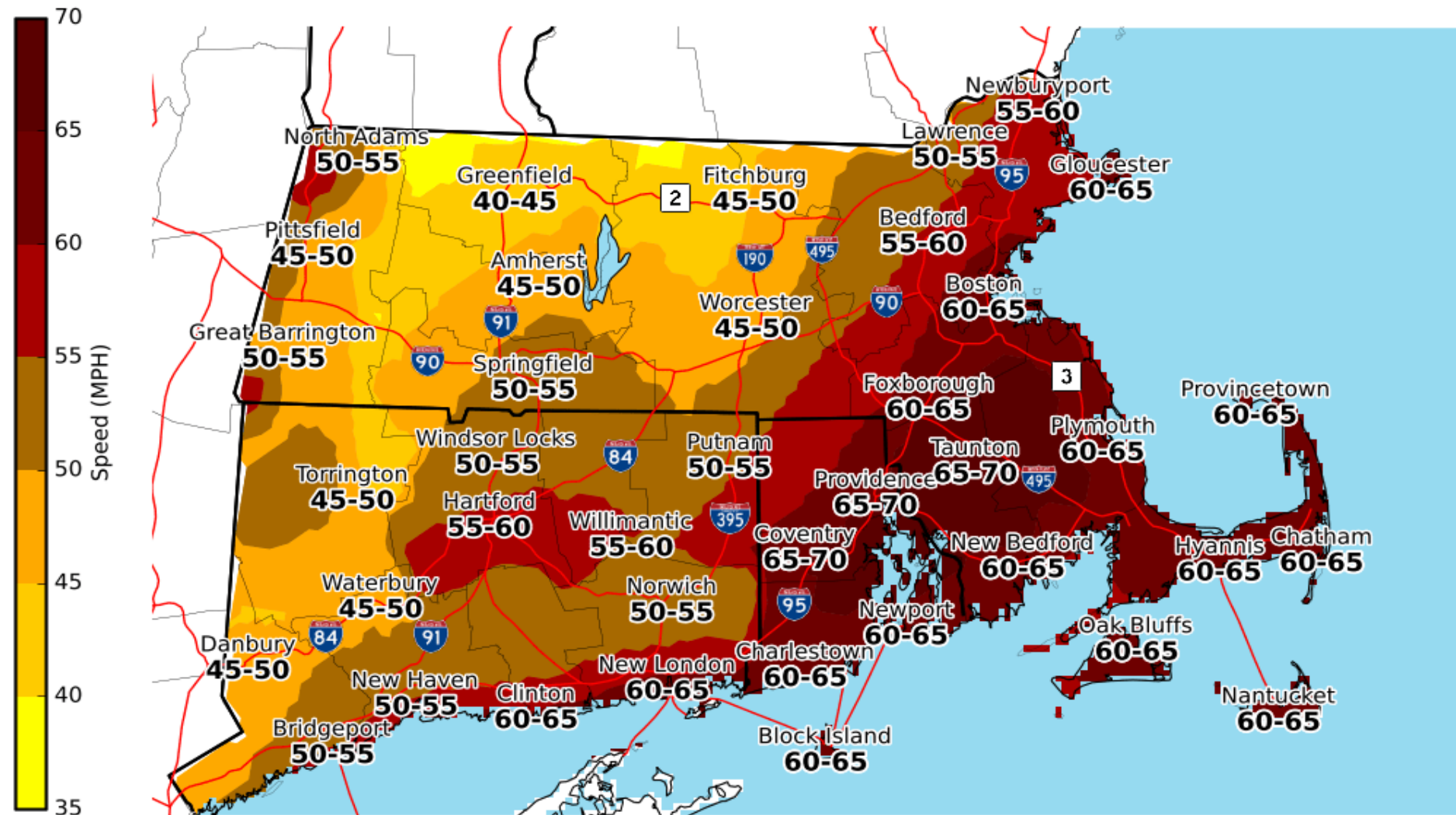
Max Sustained Wind (MPH)

Valid: Thursday Night and Friday



Forecast Maximum Wind Gusts

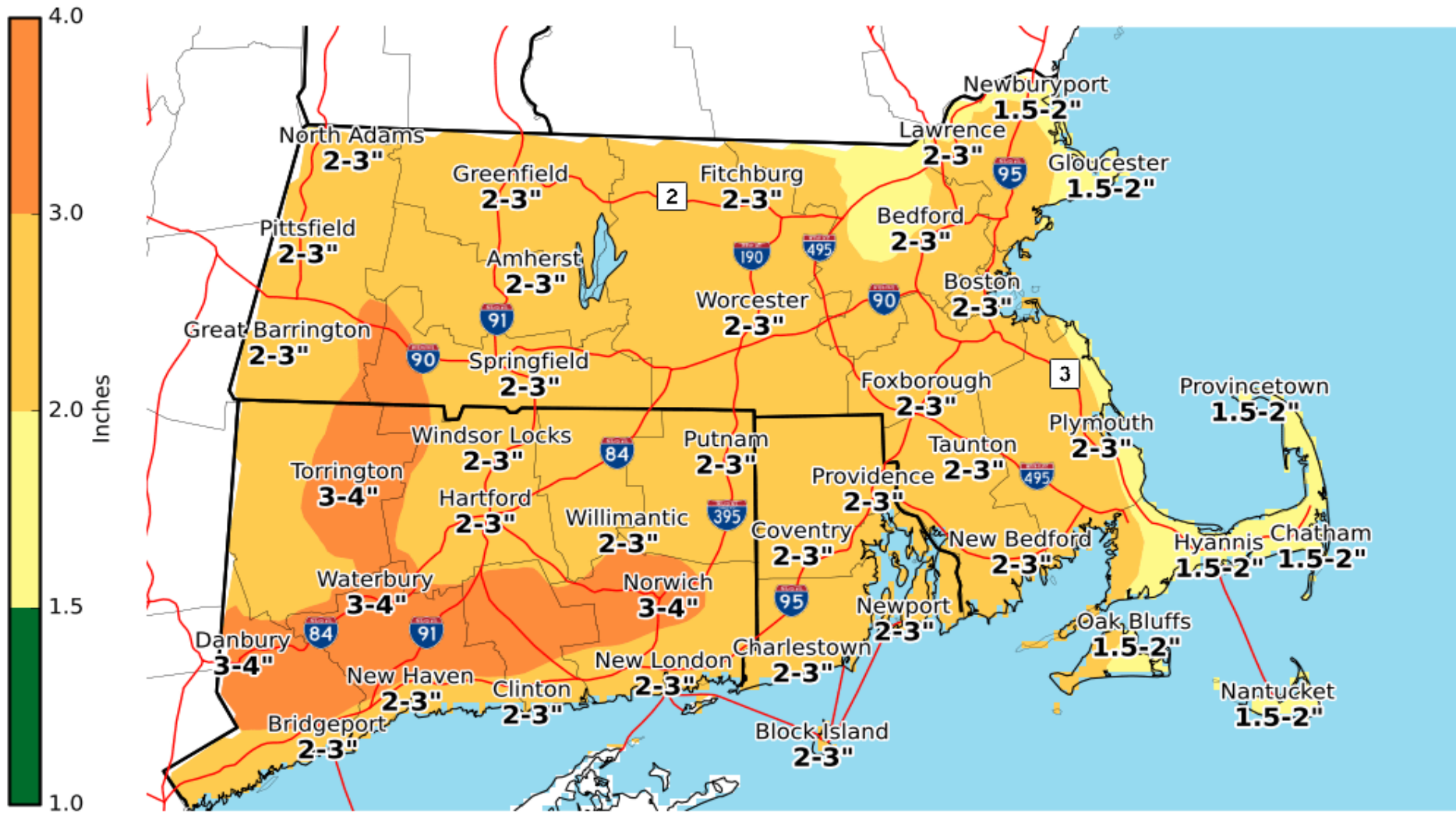
Max Wind Gusts (MPH) Valid: Thursday Night and Friday



Forecast Storm Total Precipitation

Expected Precipitation - Official NWS Forecast

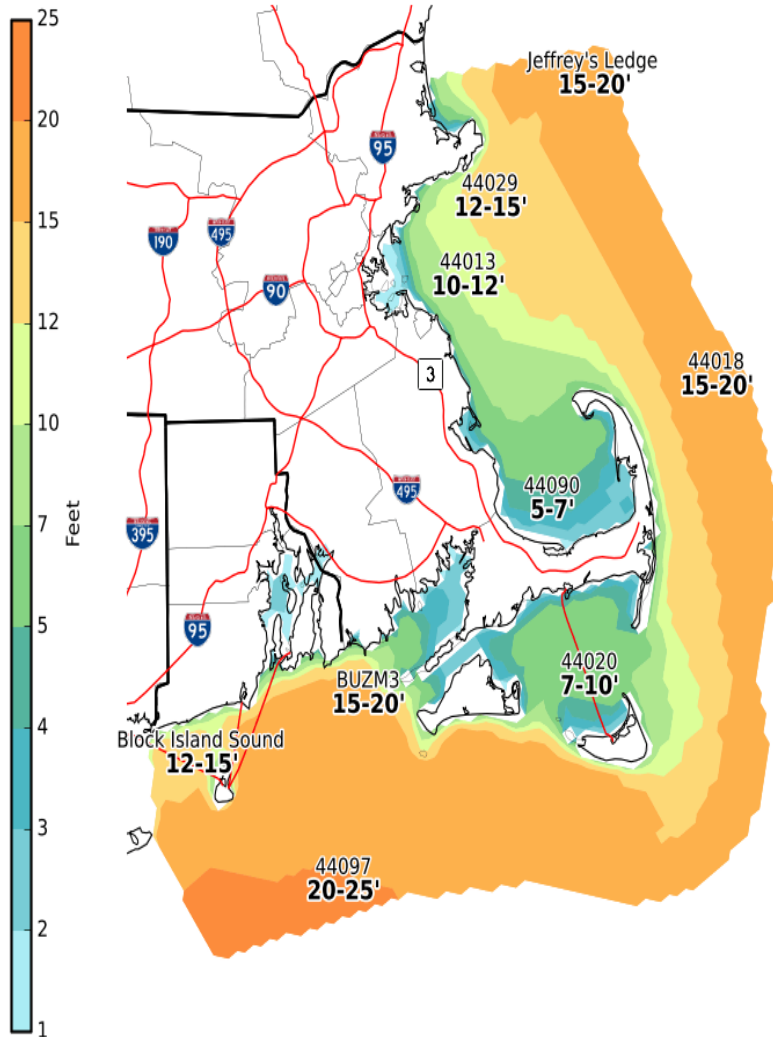
Valid: Thursday through Friday



Forecast Maximum Wave Heights and Wind Gusts (in kts)

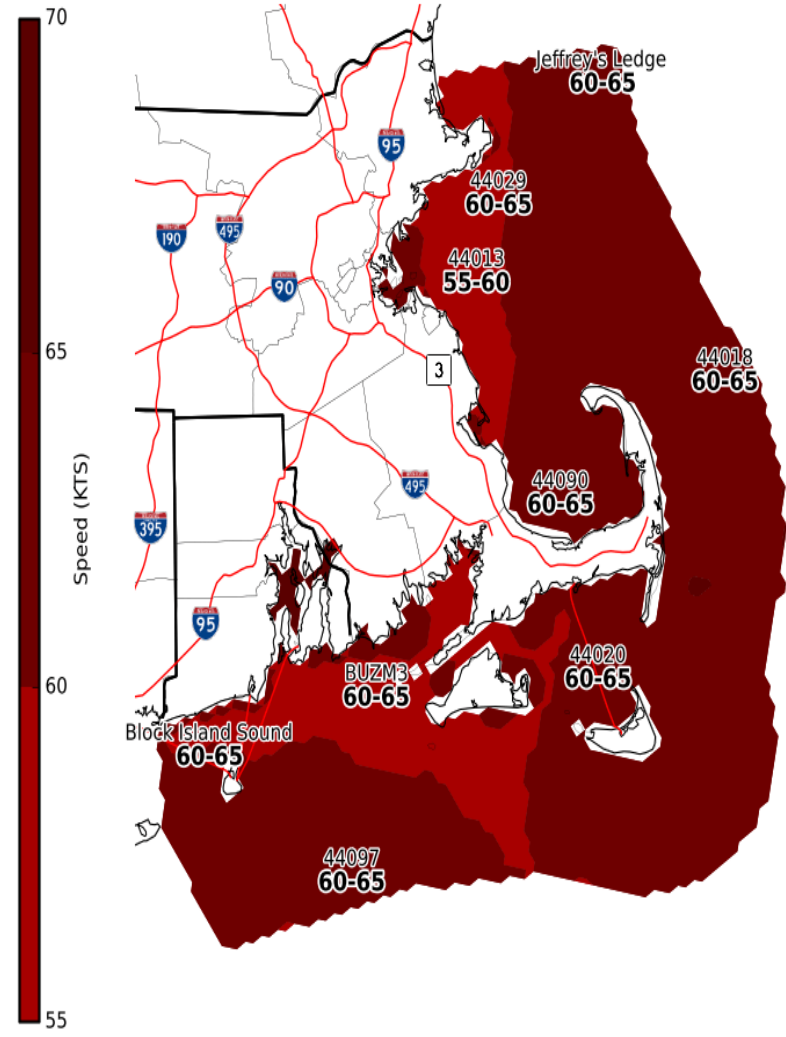
Maximum Wave Height

Valid: Thursday Night and Friday



Max Wind Gusts (KTS)

Valid: Thursday Night and Friday



Threat Event Summary

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

✓ **What:**



25-40 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 along the south coast of MA & RI.

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

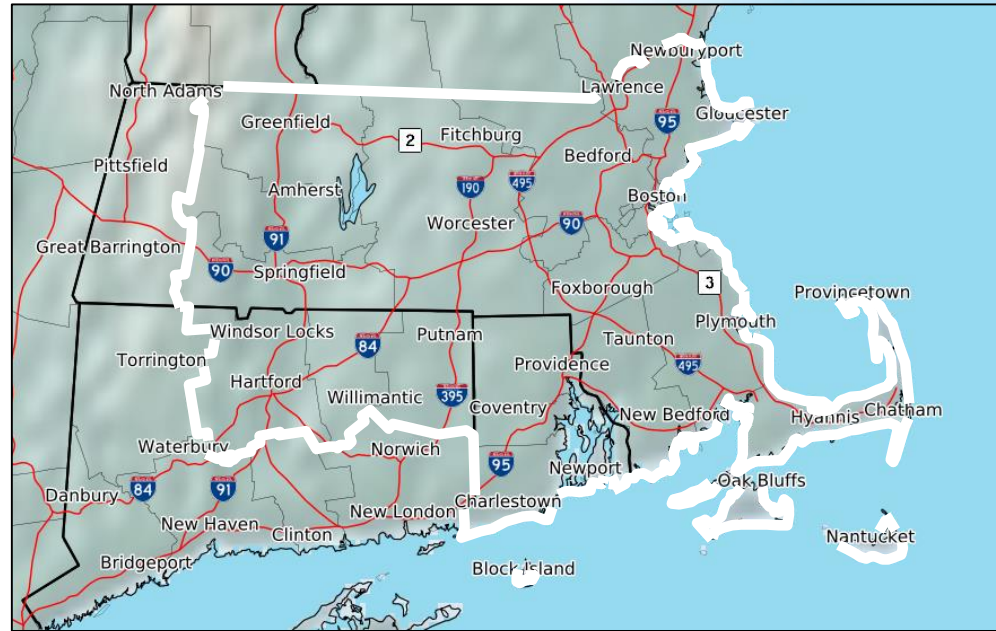
✓ **When:** Christmas Eve night into Christmas morning

Contact and Next Briefing Information

Next Briefing

When: 6 am, Thursday, December 24th

Method: via email



www.weather.gov/boston



Phone (public):
508-622-3250



Facebook:

www.facebook.com/NWSBoston



Twitter:

www.twitter.com/NWSBoston

Disclaimer: The information contained within this briefing is time-sensitive,
do not use after 6 am, Thursday, December 24, 2020