

Multi-Faceted Storm Friday Evening into Saturday Morning

National Weather Service

Decision Support Briefing # 4

Friday, December 21, 2018 4:21 PM





What Has Changed?

- ✓ High Wind Warning expanded to include Greater Providence area and interior Bristol & Plymouth counties of MA.

Hazards



Main Points

Hazard	Impacts	Location	Timing
Urban Flooding 	Impacts to evening hour hour and early holiday travel. Flooding of roads that typically flood in heavy rain, some may be closed	All of Southern New England	Continuing into tonight
River Flooding 	Minor flooding Moderate flooding possible along faster-responding rivers	All of Southern New England, especially Connecticut River basin	This evening into Sunday
Damaging Winds 	Damage to trees and power lines; scattered power outages	Eastern MA/CT and RI. Strongest winds across south coastal MA/RI including Greater Providence Area	This Evening.
Coastal Flooding 	Minor. Up to 1 foot of inundation on vulnerable shore roads; most shore roads remain open and passable. Minor beach erosion.	South Coastal Rhode Island and Massachusetts	Friday evening high tide & possible again Saturday morning high tide

Summary of Greatest Impacts



Urban/River Flooding:

All of Southern New England

None	Limited	Elevated	Significant	Extreme
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Damaging Winds:

Primarily eastern MA and RI

None	Limited	Elevated	Significant	Extreme
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Coastal Flooding:

South coasts of RI and MA

None	Limited	Elevated	Significant	Extreme
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Marine / Coastal Hazards



Wind Related Hazards



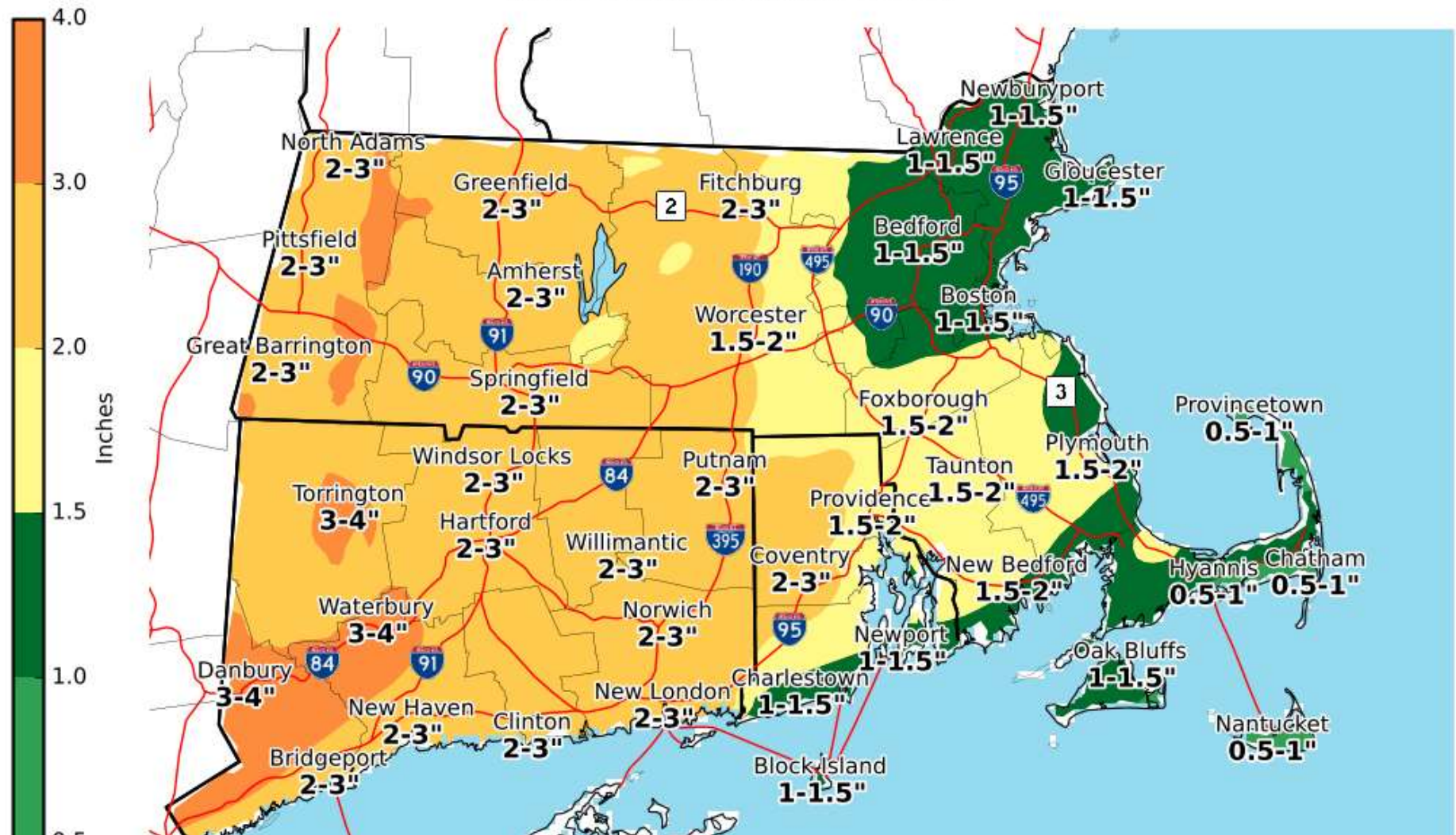
Flooding Hazards



Forecast Storm Total Precipitation

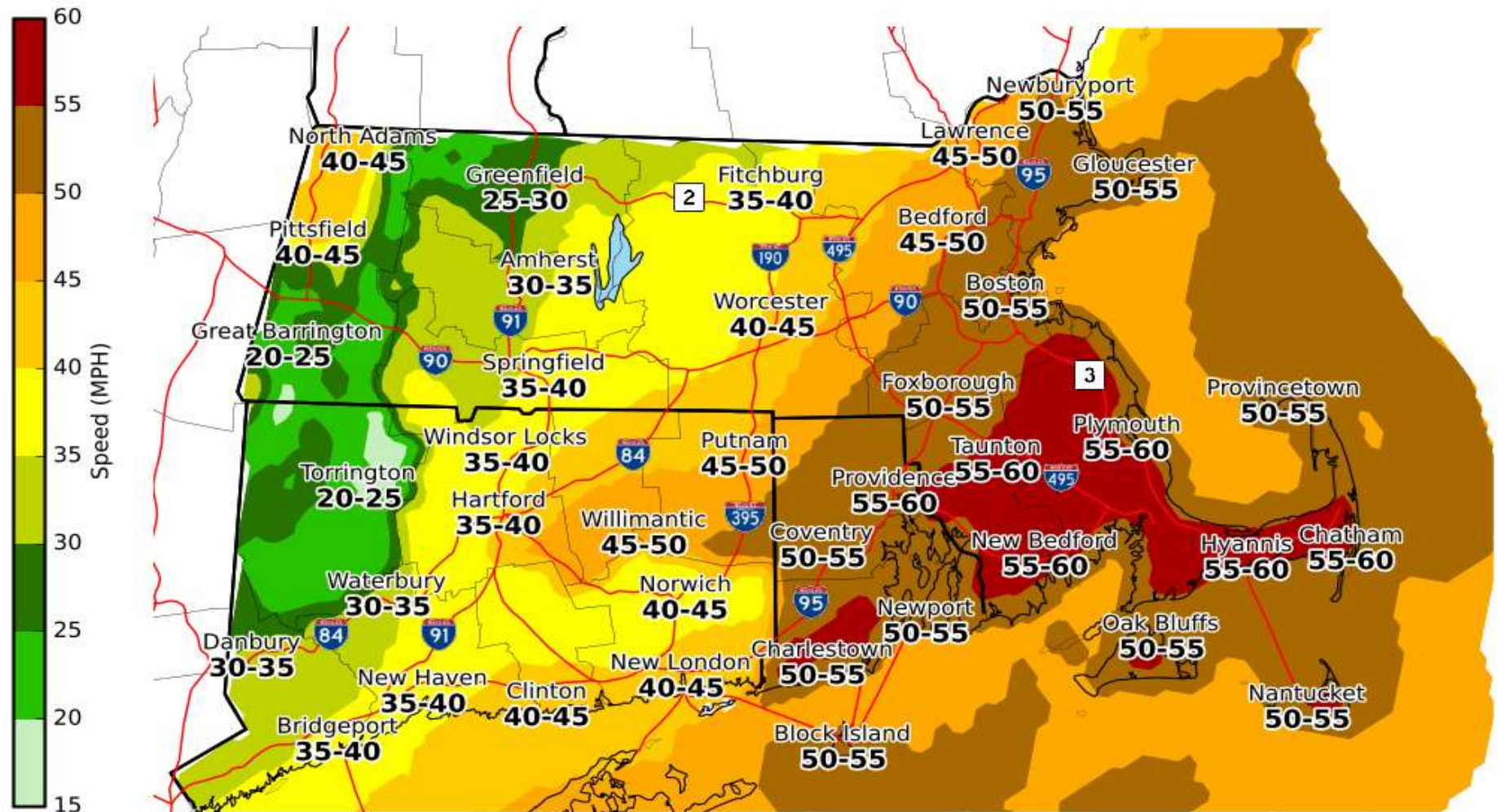
Expected Rainfall - Official NWS Forecast

Valid: Through Saturday Morning



Forecast Maximum Wind Gusts

Max Wind Gusts (MPH) Valid: Friday Evening



Coastal Flooding – Surge / Inundation



Minor Coastal Flooding

- Up to 1 foot of inundation on vulnerable shore roads
- Most shore roads remain open and passable
- Minor beach erosion with heavy surf

Timing

- Friday evening high tide
- Possible again Saturday morning high tide

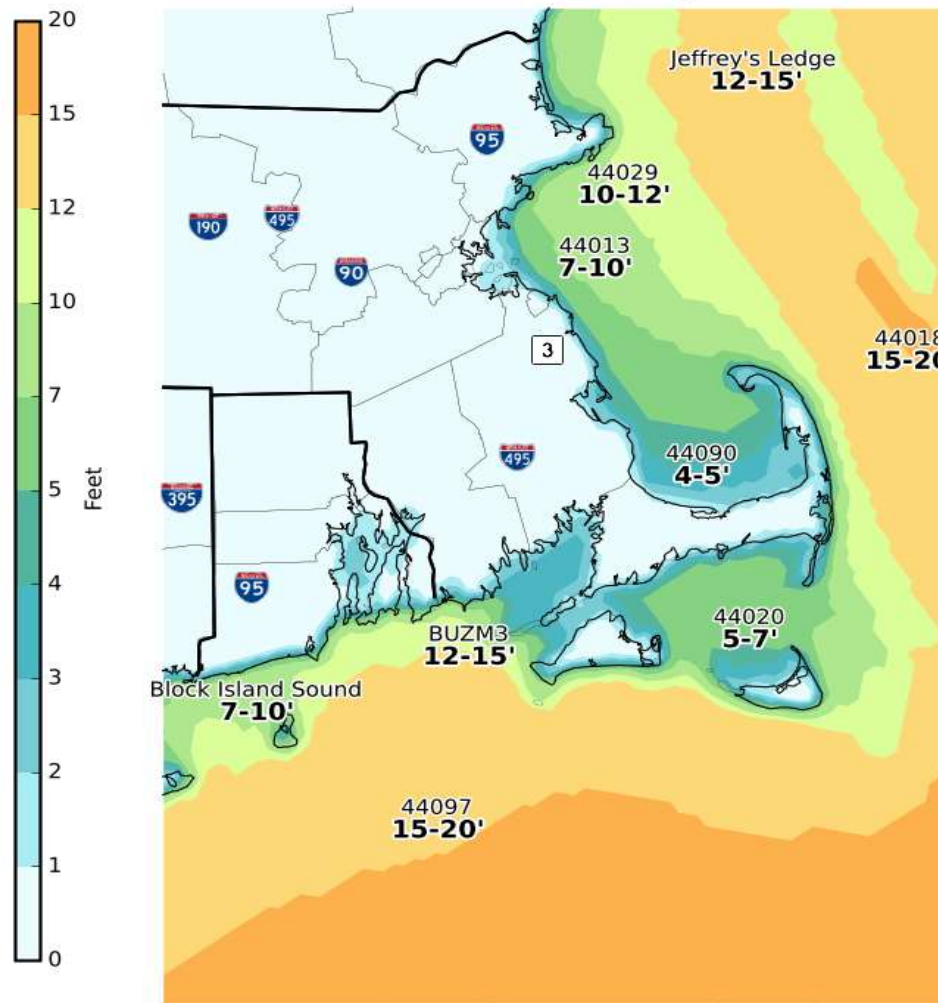
None
Minor
Moderate
Major
Extreme

	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

Forecast Maximum Wave Heights and Wind Gusts (in kts)

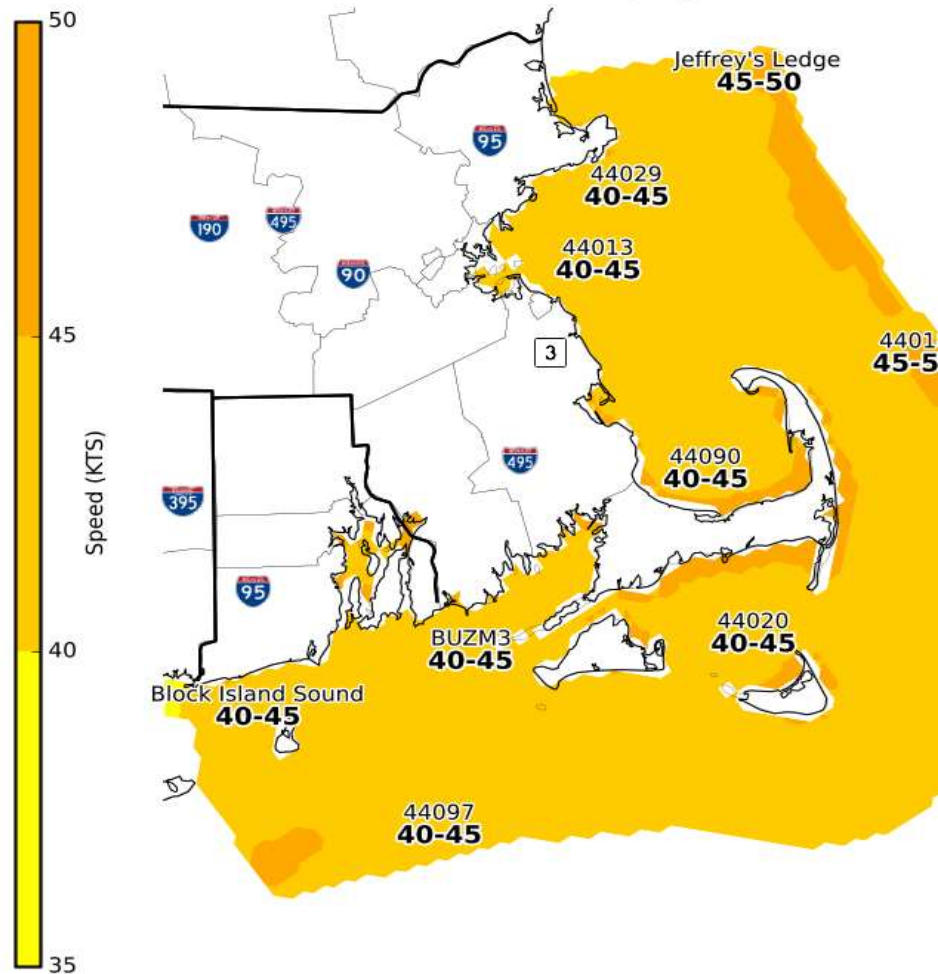
Maximum Wave Height

Valid: Friday Night



Max Wind Gusts (KTS)

Valid: Friday Night



Threat Event Summary

✓ **Confidence:** High.

✓ **What:**



Urban flooding, especially on roads that typically flood. Minor river flooding, perhaps moderate flooding on faster-responding rivers.



Damaging wind gusts of 40-60 mph, highest over southern RI including the Greater Providence Area and southeast MA including Cape Cod, and the Islands.



Minor coastal flooding with this evening's high tide on the South Coast of RI and MA, possibly again during the Saturday morning high tide.

✓ **Where:** All of Southern New England will experience some impact.

✓ **When:** Through this evening. Impacts to both commutes and early holiday travel.

Contact and Next Briefing Information

Next Briefing
When: *If Needed*
Method: *via email*



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