

Multi-Faceted Storm Friday Morning – Friday Night

National Weather Service

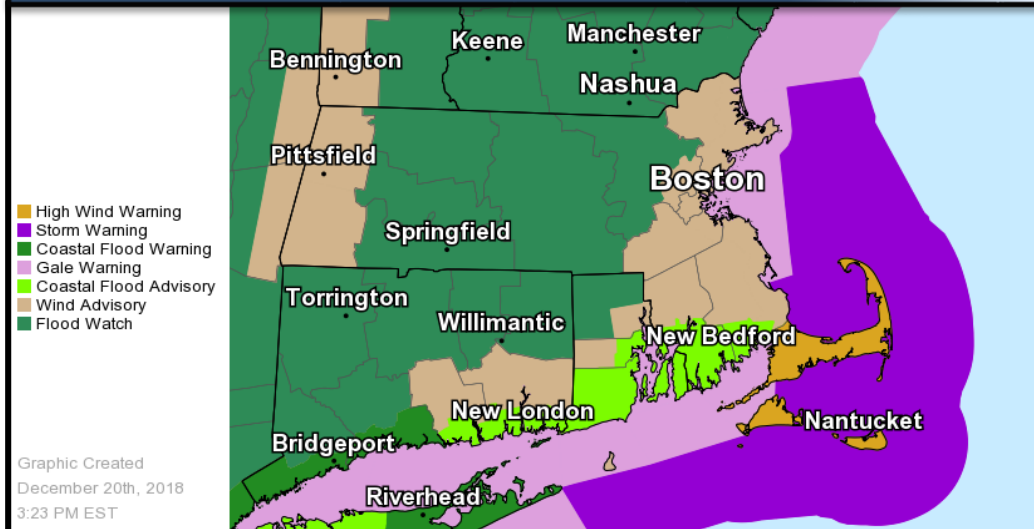
Decision Support Briefing # 2

Thursday, December 20, 2018 3:23 PM



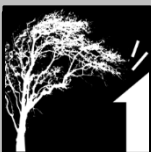

What Has Changed?

- ✓ High Wind Warnings and Wind Advisories for RI/E MA
- ✓ Storm Warnings for most of MA coastal waters
- ✓ Coastal Flood Advisory for South Coastal MA/RI
- ✓ Focus for heaviest rainfall now in western/central MA & northern CT

Hazards



Main Points

Hazard	Impacts	Location	Timing
Urban Flooding 	Impacts to both rush hours and early holiday travel. Flooding of roads that typically flood in heavy rain, some may be closed	All of Southern New England	Early Friday Morning Into Friday Night
River Flooding 	Minor flooding Moderate flooding possible along faster-responding rivers	All of Southern New England, especially Connecticut River basin	Friday afternoon into Sunday
Damaging Winds 	Damage to trees and power lines; scattered power outages	Southeast Massachusetts and Rhode Island. Strongest Winds on Cape Cod and the Islands.	Friday Morning Into Friday 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 (6:56 PM in Providence)

Summary of Greatest Impacts



Urban/River Flooding:

All of Southern New England

None

Limited

Elevated

Significant

Extreme



Damaging Winds:

Primarily eastern MA and RI

None

Limited

Elevated

Significant

Extreme



Coastal Flooding:

South coasts of RI and MA

None

Limited

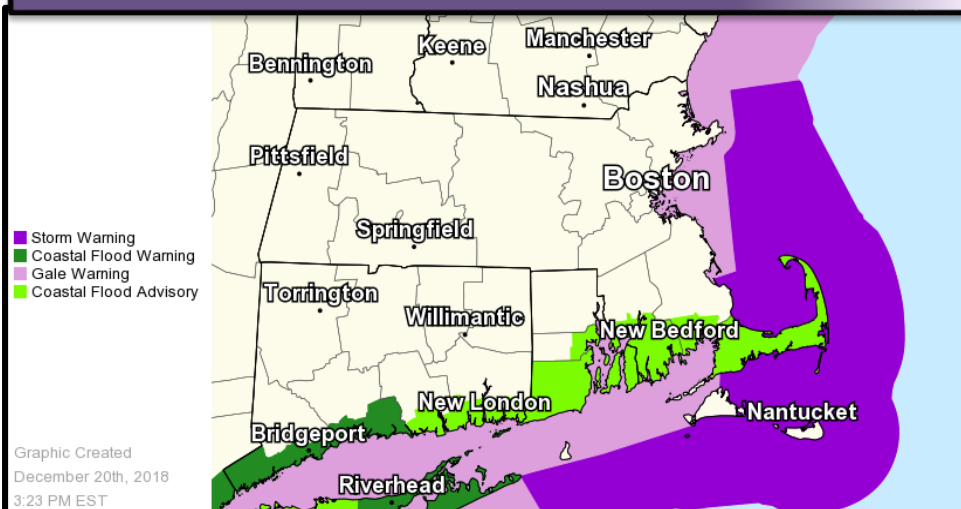
Elevated

Significant

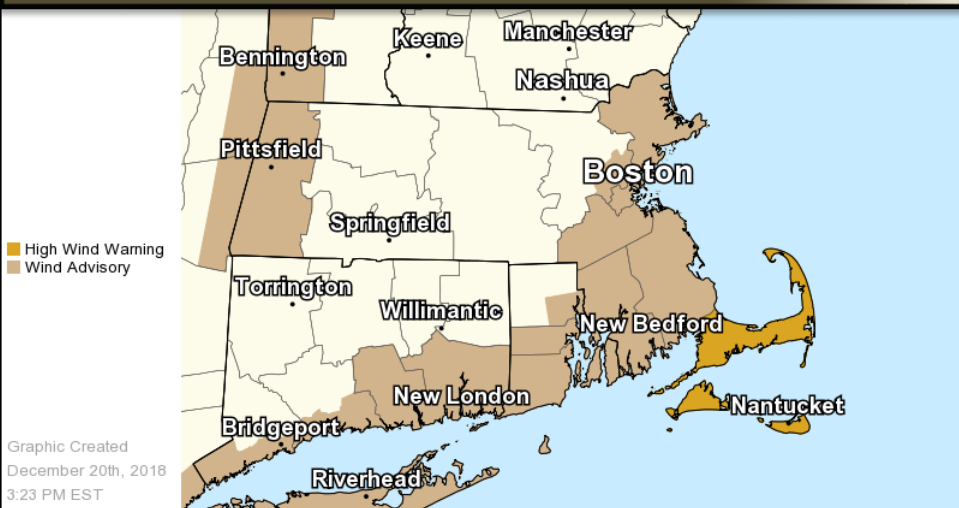
Extreme



Marine / Coastal Hazards



Wind Related Hazards

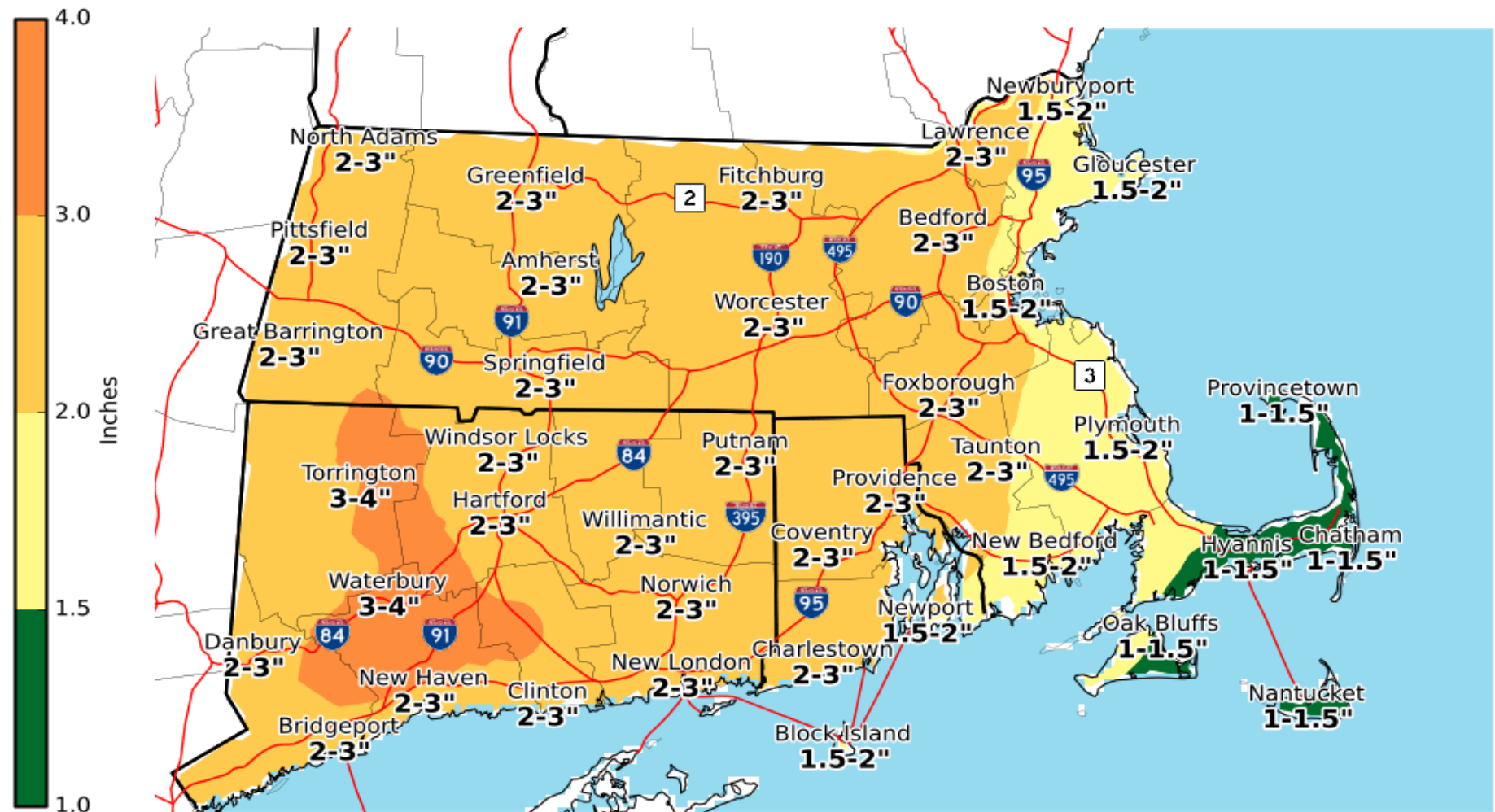


Flooding Hazards



Forecast Storm Total Precipitation

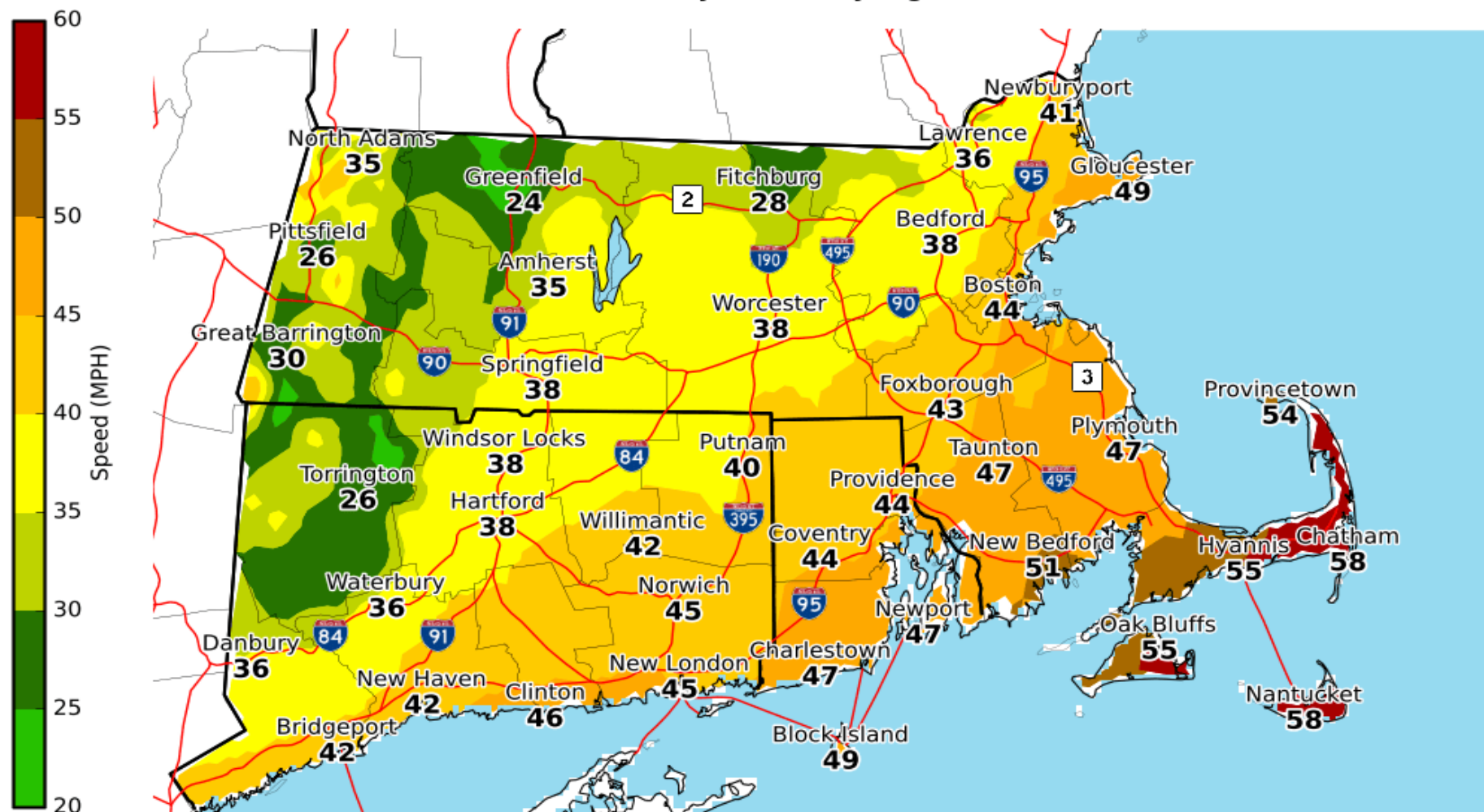
Rainfall Forecast Valid: Tonight Through Friday Night



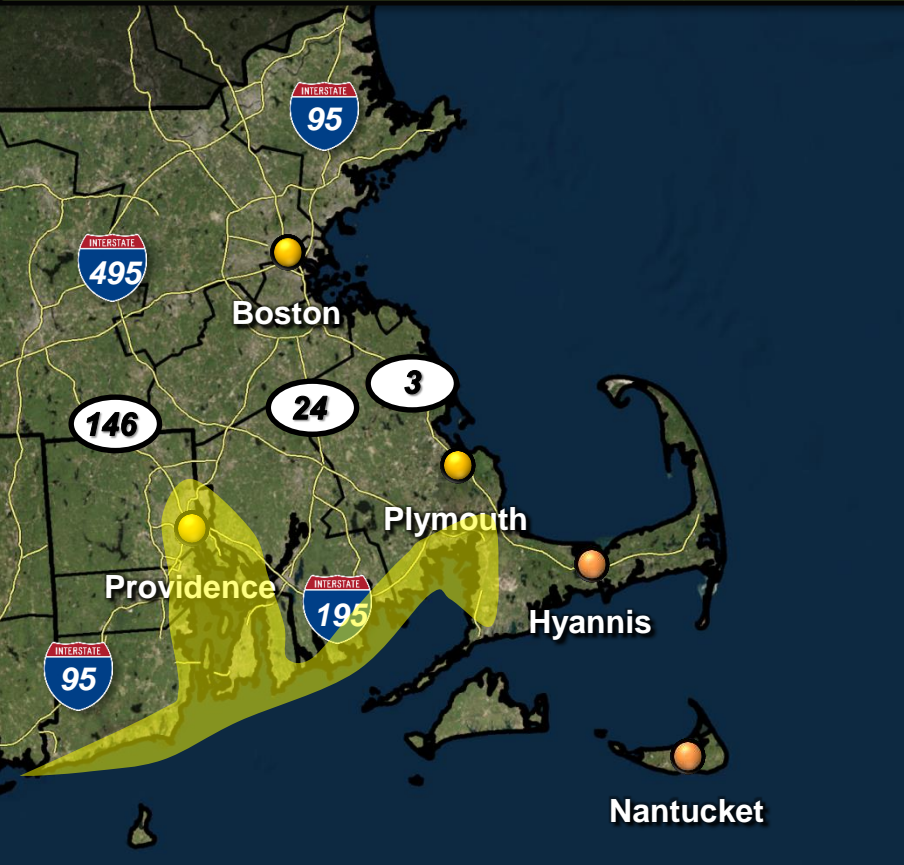
Forecast Maximum Wind Gusts

Forecast Maximum Wind Gusts

Valid: Friday and Friday Night



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

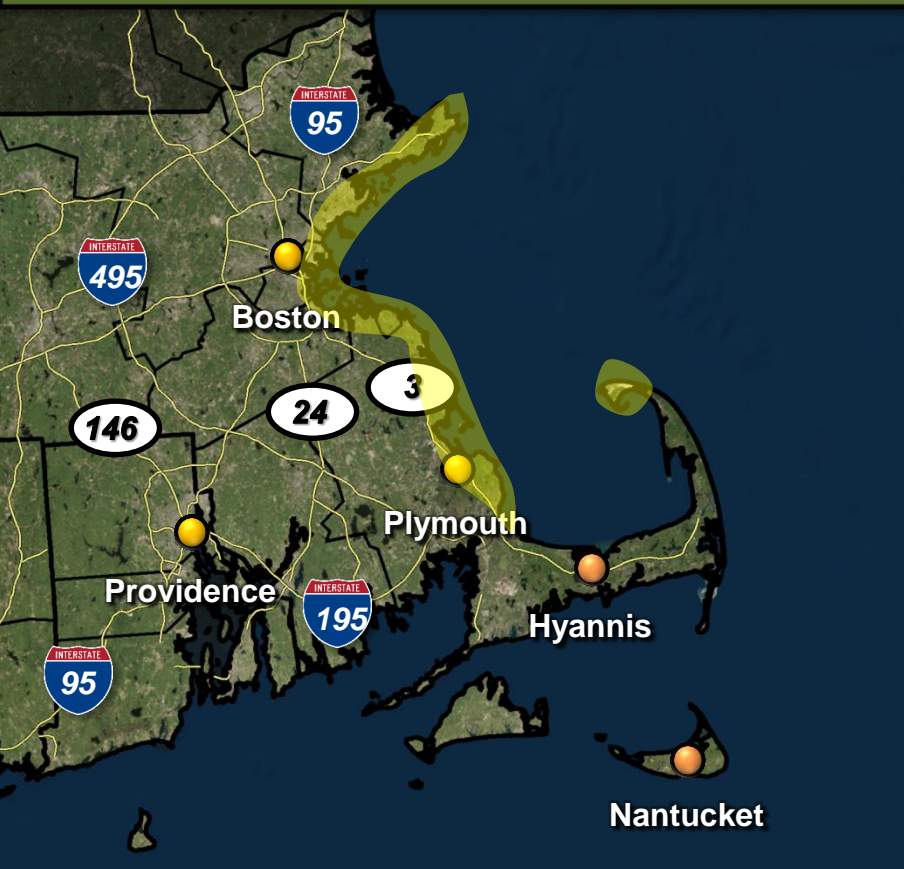
Timing

- Possibly during early Friday morning high tide
- More likely with late Friday afternoon/evening 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

Coastal Flooding – East Coast Surge / Inundation



Minor Coastal Flooding

- Pockets of inundation of up to 1 foot on vulnerable shore roads (Morrissey Blvd in Boston)
- Most shore roads remain open and passable
- Minor beach erosion with heavy surf

Timing

- Early Friday morning high tide

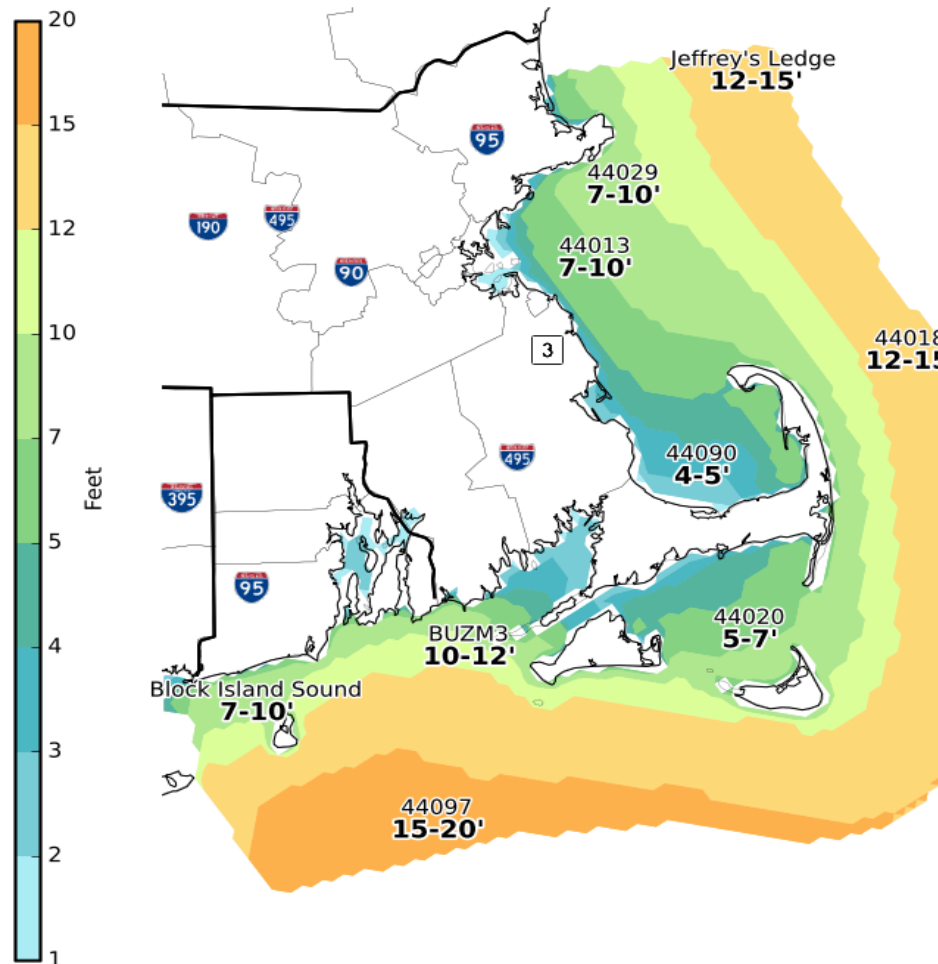
None
Minor
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Extreme	> 9 feet above ground	To be safe, aggressively prepare for the potential of devastating to catastrophic storm surge flooding impacts

Forecast Maximum Wave Heights and Wind Gusts (in kts)

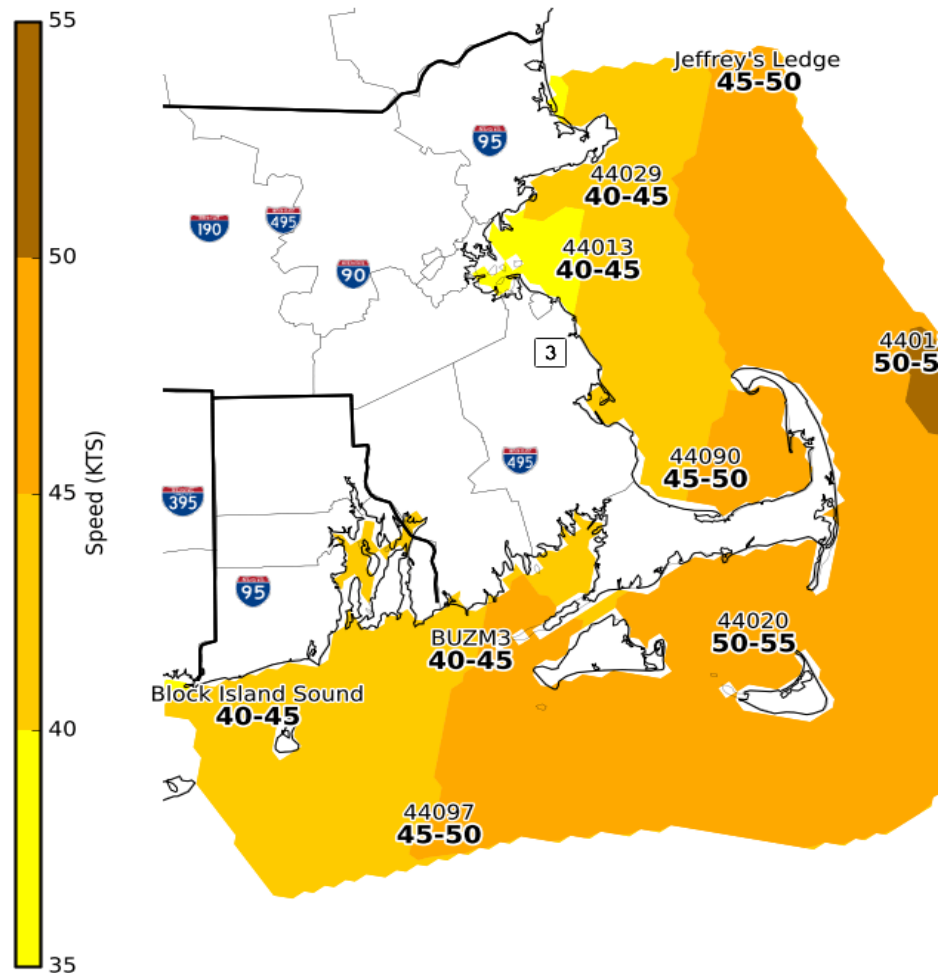
Maximum Wave Height

Valid: Friday and Friday Night



Max Wind Gusts (KTS)

Valid: Friday and 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 near the South Coast, Cape Cod, and the Islands.



Minor coastal flooding with the late day high tide Friday on the South Coast, but possibly early Friday morning in vulnerable East Coast locations.

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

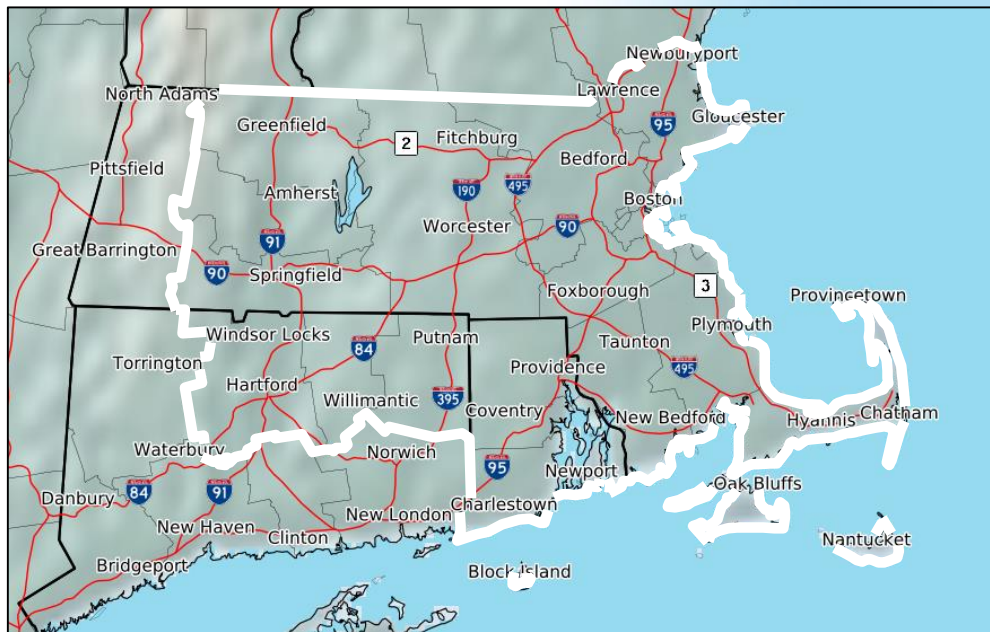
✓ **When:** Early Friday morning into Friday evening. Impacts to both commutes and early holiday travel.

Contact and Next Briefing Information

Next Briefing

When: 5 AM, Friday, December 21st

Method: via email



www.weather.gov/boston



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