

Dangerous Wind Chills, High Wind and Strong Storm Tonight Through Monday

National Weather Service

Decision Support Briefing # 3

Friday, January 14, 2022 3:25 PM

What Has Changed?

- ✓ Less snow but greater concern for coastal winds and coastal flooding on Monday.
- ✓ Winter Storm Watch East Slopes of the Berkshires and Northern Worcester Hills.

Current Winter Weather Hazards

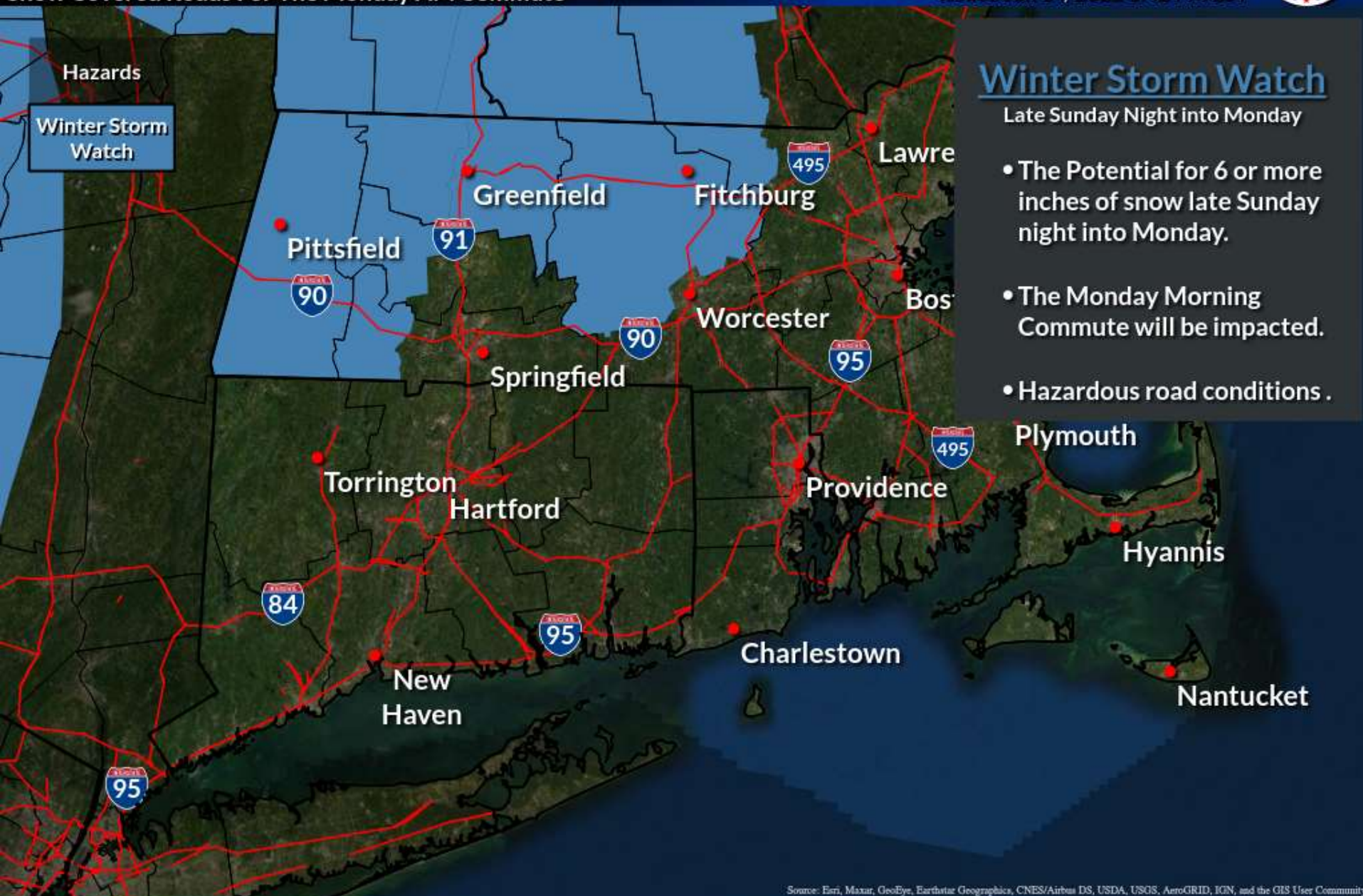


Winter Storm Watch Late Sunday Night Into Monday

Snow Covered Roads For The Monday AM Commute




Weather Forecast Office
Boston/Norton, MA

Issued Jan 14, 2022 3:42 PM EST



Source: Esri, Maxar, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AeroGRID, IGN, and the GIS User Community

Main Points Tonight and Saturday

Hazard		Impacts	Location	Timing
Damaging Winds		Possible power outages	East coastal MA with greatest risk across Cape Cod and Islands	Late this afternoon and Evening; 4PM to Midnight
Wind Chill		Frostbite could occur on exposed skin in as little as 10 minutes	Most of southern New England, especially higher terrain	Late tonight into Saturday
Slippery Travel		Potential icy roads from rain changing to snow with rapidly falling temperatures	Cape Cod and SE coastal MA	Tonight
Ocean Effect Snow Showers		Minor snow accumulations from ocean effect snow showers; poor visibility at times	Outer Cape	Late tonight into Saturday Morning

Summary of Greatest Impacts Tonight/Saturday



Winds: East coastal MA with greatest risk Cape Cod and Islands

None	Limited	Elevated	Significant	Extreme
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Wind Chill: Most of southern New England, especially Higher Terrain

None	Limited	Elevated	Significant	Extreme
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Slippery Travel: Cape Cod and SE Coastal MA

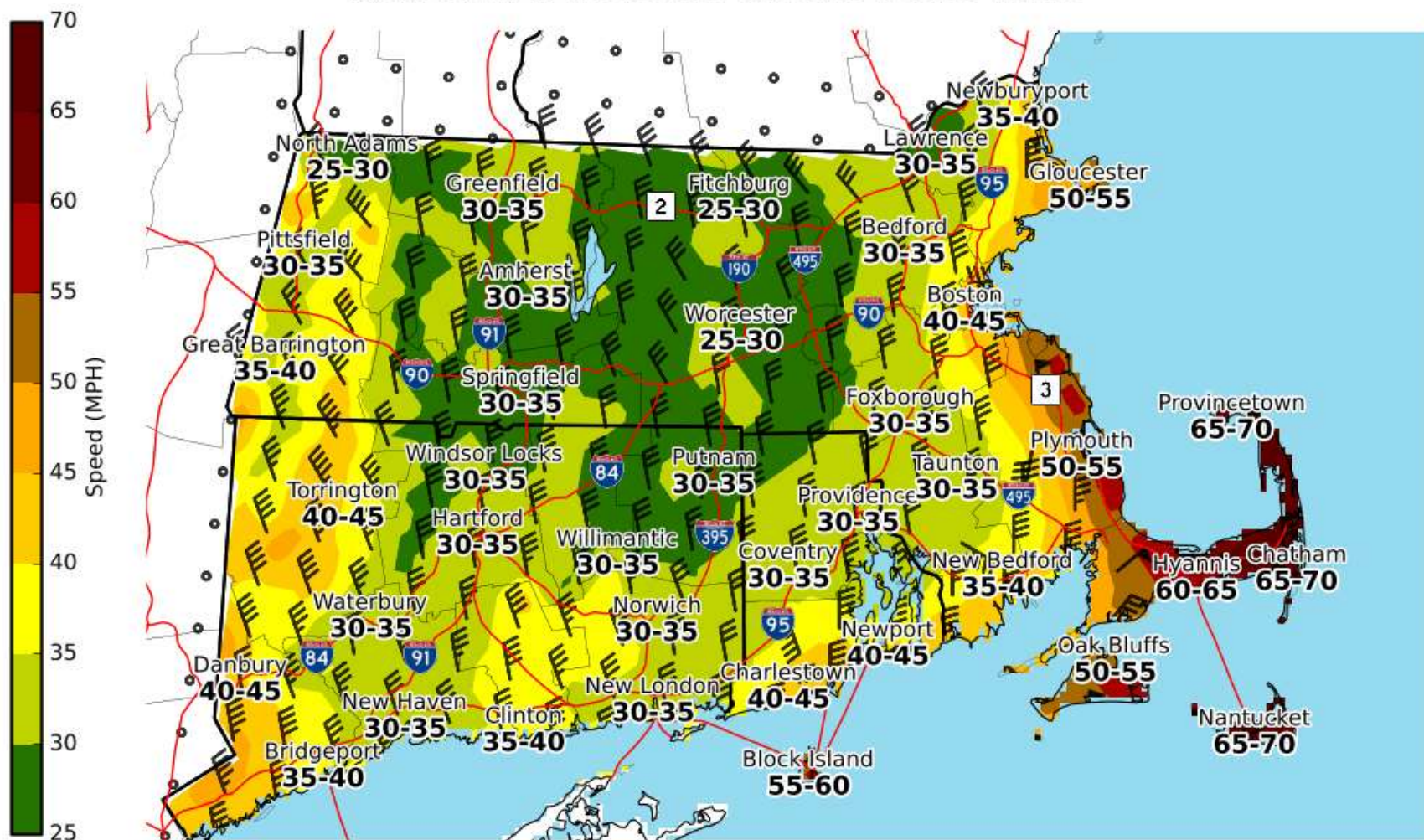
None	Limited	Elevated	Significant	Extreme
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Forecast Maximum Wind Gusts Tonight

Max Wind Gusts (MPH)

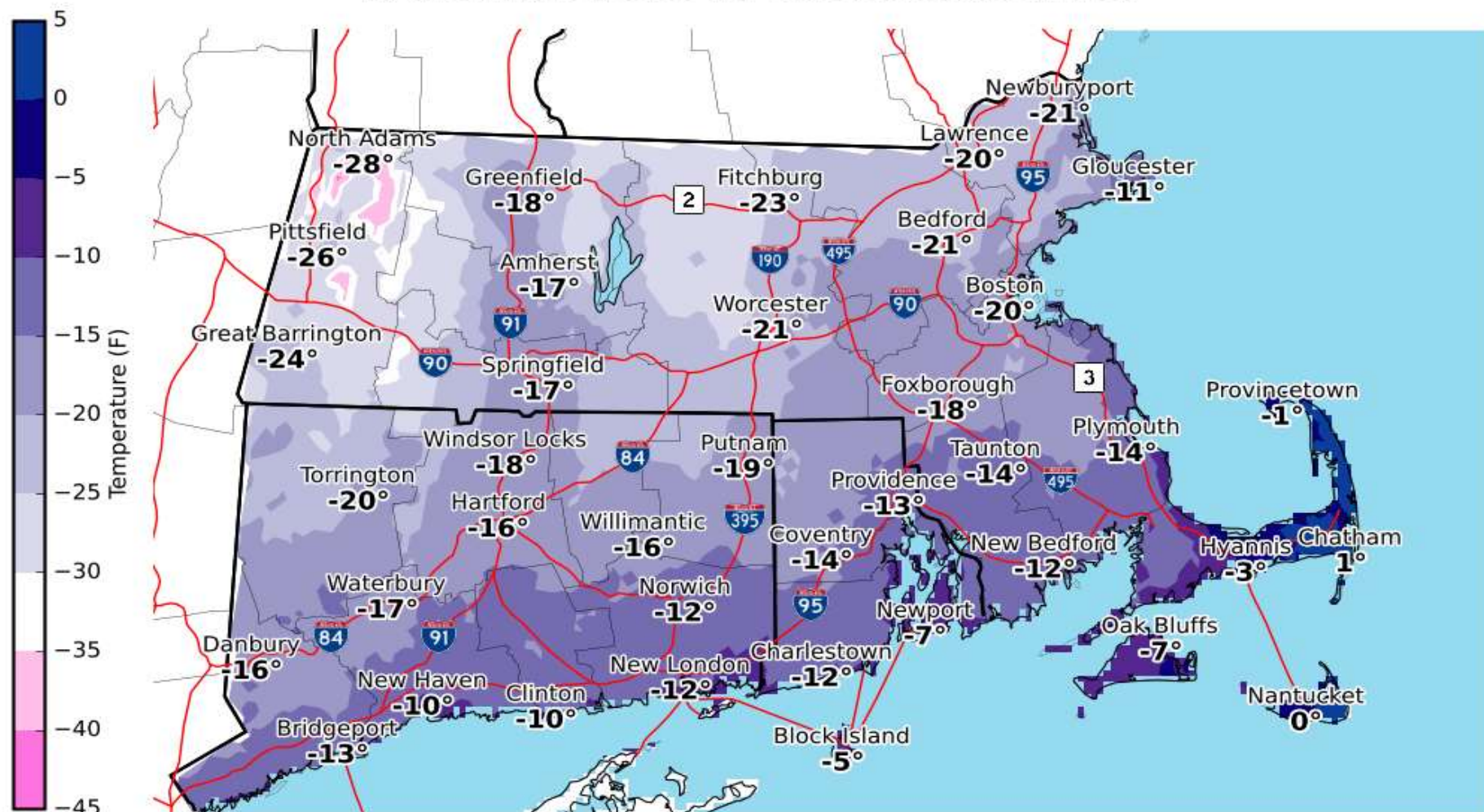
Valid: 01/14/2022 07:00 PM - 01/15/2022 08:00 PM EST



Forecast Minimum Wind Chills Saturday Morning

Min Apparent Temperature

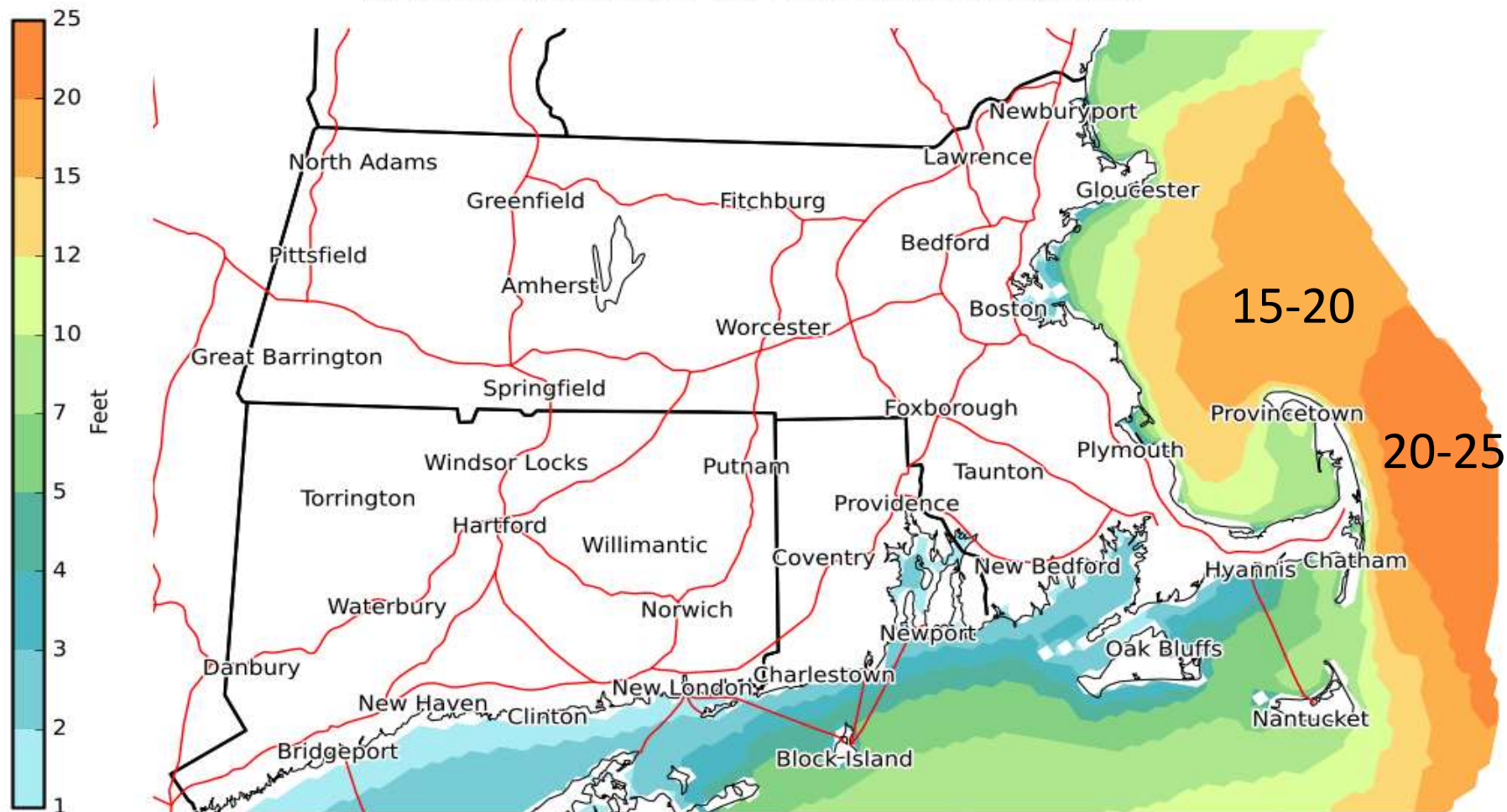
Valid: 01/14/2022 06:00 PM - 01/15/2022 10:00 AM EST






Forecast Maximum Wave Heights (Ft): Tonight Into Saturday Morning

Maximum Wave Height

Valid: 01/14/2022 06:00 PM - 01/15/2022 10:00 AM EST



Main Points Sunday Night and Monday

Hazard	Impacts	Location	Timing
Damaging Winds 	Possible power outages	Along coastal MA and RI	Monday Morning
Coastal Flooding 	Minor to Moderate Coastal flooding; greatest along N/NE facing beaches	Immediate coastline of RI, MA	Primarily the Monday morning high tide
Snow/Rain Mix 	Snow changing to rain; accumulations along the immediate coast look minor if anything at all. Greatest concern for several inches of snow in N. Worcester County and the Berkshires	Most of S. New England;	Late Sunday Night through Monday Morning

Summary of Greatest Impacts Sunday Night/Monday



Winds: East coastal MA with greatest risk Cape Cod and Islands

None	Limited	Elevated	Significant	Extreme
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Coastal Flooding: Minor along S. RI/MA Coast, Minor/MDT E/NE MA Coast

None	Limited	Elevated	Significant	Extreme
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Snow to Rain Mix: Most of S. New England; immediate coast remains rain

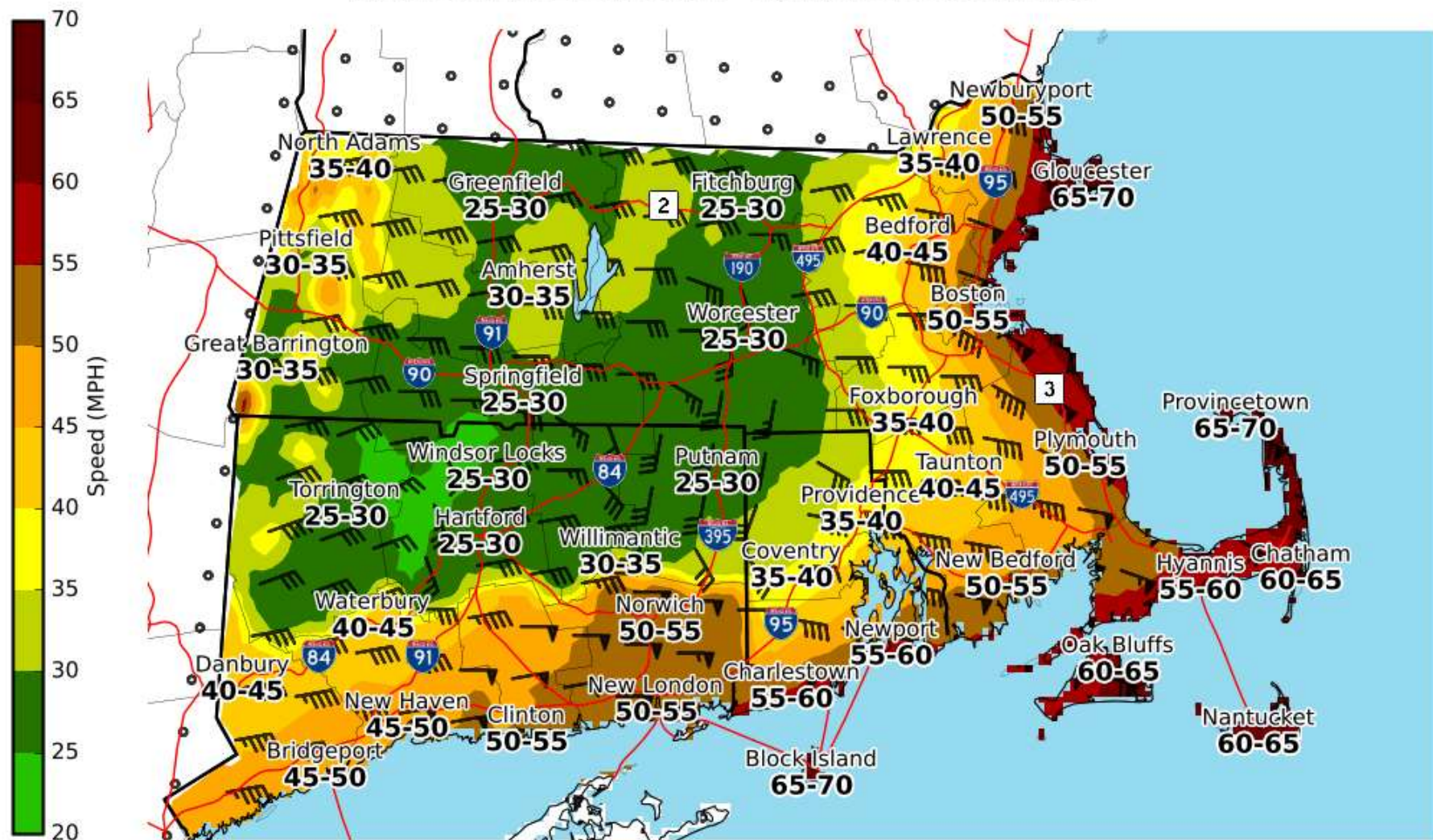
None	Limited	Elevated	Significant	Extreme
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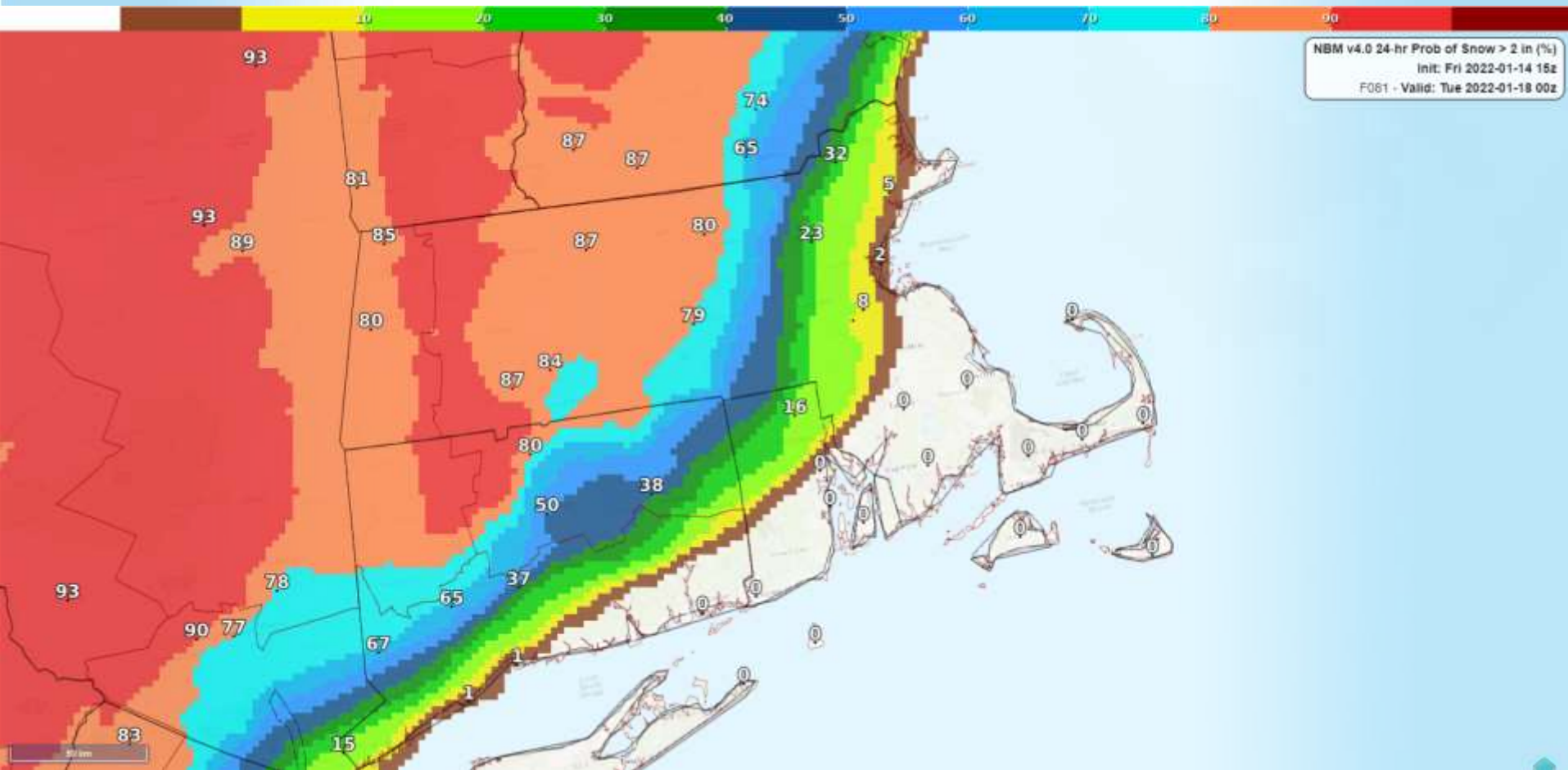
Forecast Maximum Wind Gusts Monday Morning

Max Wind Gusts (MPH)

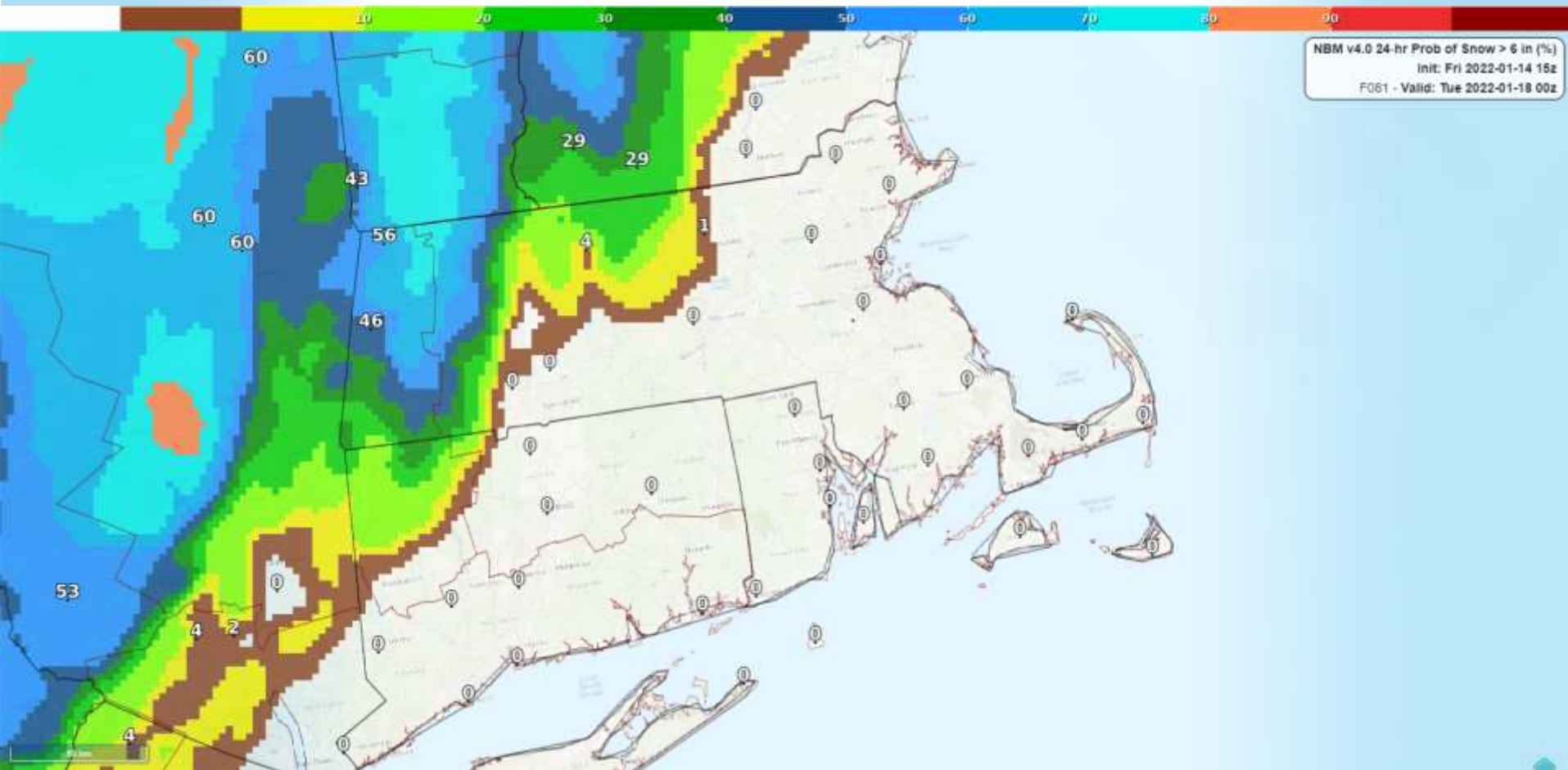
Valid: 01/16/2022 07:00 AM - 01/17/2022 08:00 PM EST



Probability 2+” Snow Late Sunday Night/Monday



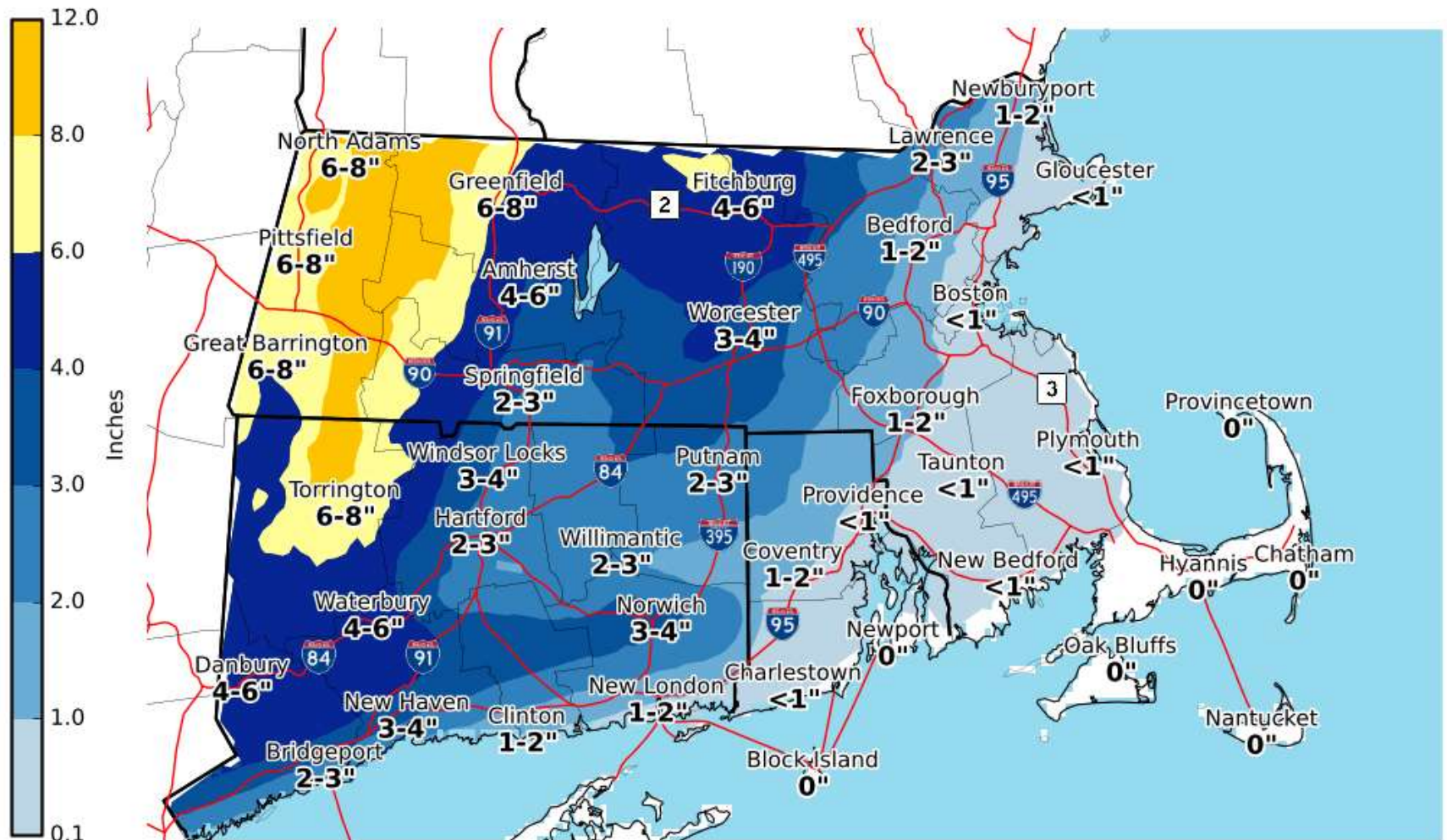
Probability 6+” Snow Late Sunday Night/Monday



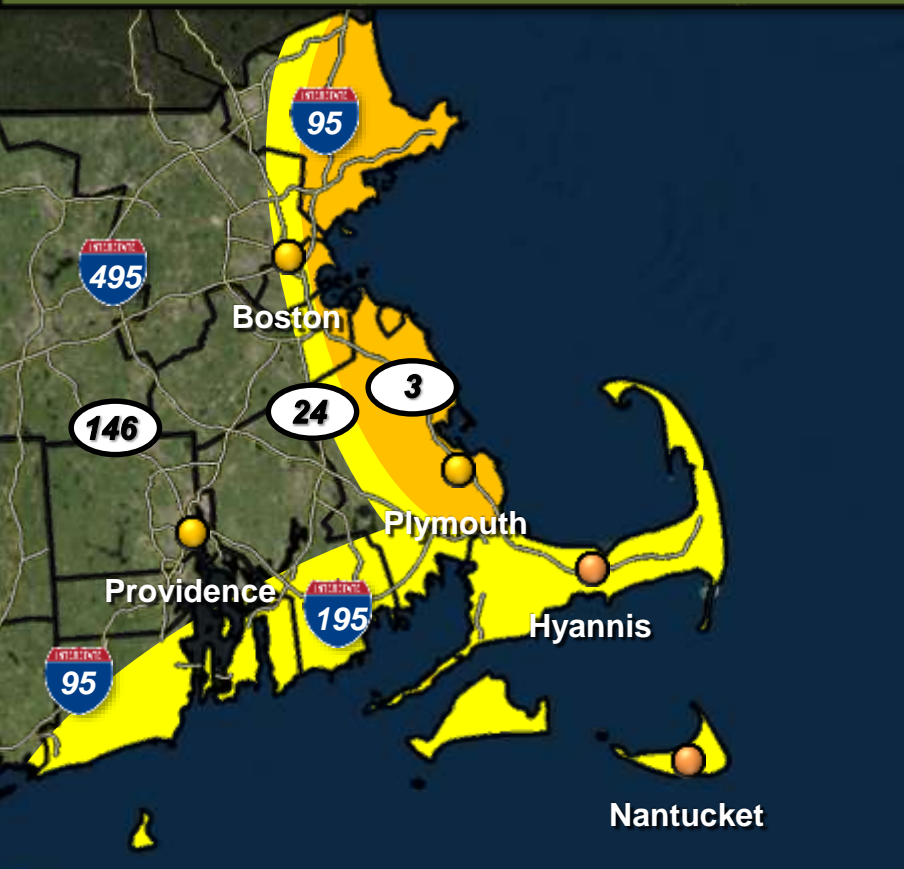
Preliminary Forecast Storm Total Snowfall Late Sunday Night through Monday

Expected Snowfall - Official NWS Forecast

Valid: 01/16/2022 07:00 PM - 01/17/2022 07:00 PM EST



Coastal Flooding – Surge / Inundation Monday Morning High Tide



Minor to Moderate Coastal Flooding

- Partial inundation within the flood zone, especially for low-lying areas.
- Vulnerable shore roads with up to a foot of water inundation possible. May be flooding of a few vulnerable basements.
- Some beach erosion with heavy surf.
- Greatest threat for moderate flooding along north/northeast facing coastlines

Timing

- High tide Monday morning will be most impacted.

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

Threat Event Summary

- ✓ **Confidence:** High on dangerously cold wind chills, high winds, & slippery travel
Moderate on outcomes Late Sunday Night and Monday

✓ **What:**



- Wind Gusts 50-55 mph SE coastal MA & 60-70 mph Cape Cod & Islands
- Potentially damaging winds again Monday AM near the coast



- Dangerously cold wind chills 15 to 30F below zero
- Potential accumulating snow for the interior Late Sunday into Monday



- Minor to Moderate coastal flooding during the Monday morning high tide

- ✓ **Where:** All of Southern New England

- ✓ **When:** Tonight into Saturday; Late Sunday night into Monday

Contact and Next Briefing Information

Next Briefing

When: 6 am, Saturday, January 15th

Method: via email



www.weather.gov/boston



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