Winter Weather Briefing

For NWS Boston/Norton County Warning Area

January 4, 2024
4:00 PM

Decision Support Briefing #1

➔ As of 430 PM Thursday, January 4th 2024

NEW Important Updates

- ➔ Winter Storm Watch in effect for locations north and west of I-95
- ➔ “Plowable” Snow, 3-6”+, likely southern New England. Up to 12 inches possible
- ➔ Snow to begin after 6 PM Saturday and end by 6 PM Sunday
- ➔ Precipitation Type Issues will Plague the I-95 Corridor/Coastline

Active Headlines

January 4, 2024
4:00 PM

Winter Weather Hazards

Marine / Coastal Hazards

Wind Related Hazards

Flooding Hazards

Summary of Greatest Impacts

January 4, 2024
4:00 PM

Winds

Greatest risk RI and southeast MA

Little to None	Minor	Moderate	Major	Extreme

Coastal Flooding

Greatest risk RI and southeast MA

Little to None	Minor	Moderate	Major	Extreme

Snow

Greatest risk RI and southeast MA

Little to None	Minor	Moderate	Major	Extreme

Marine

Greatest risk RI and southeast MA

Little to None	Minor	Moderate	Major	Extreme

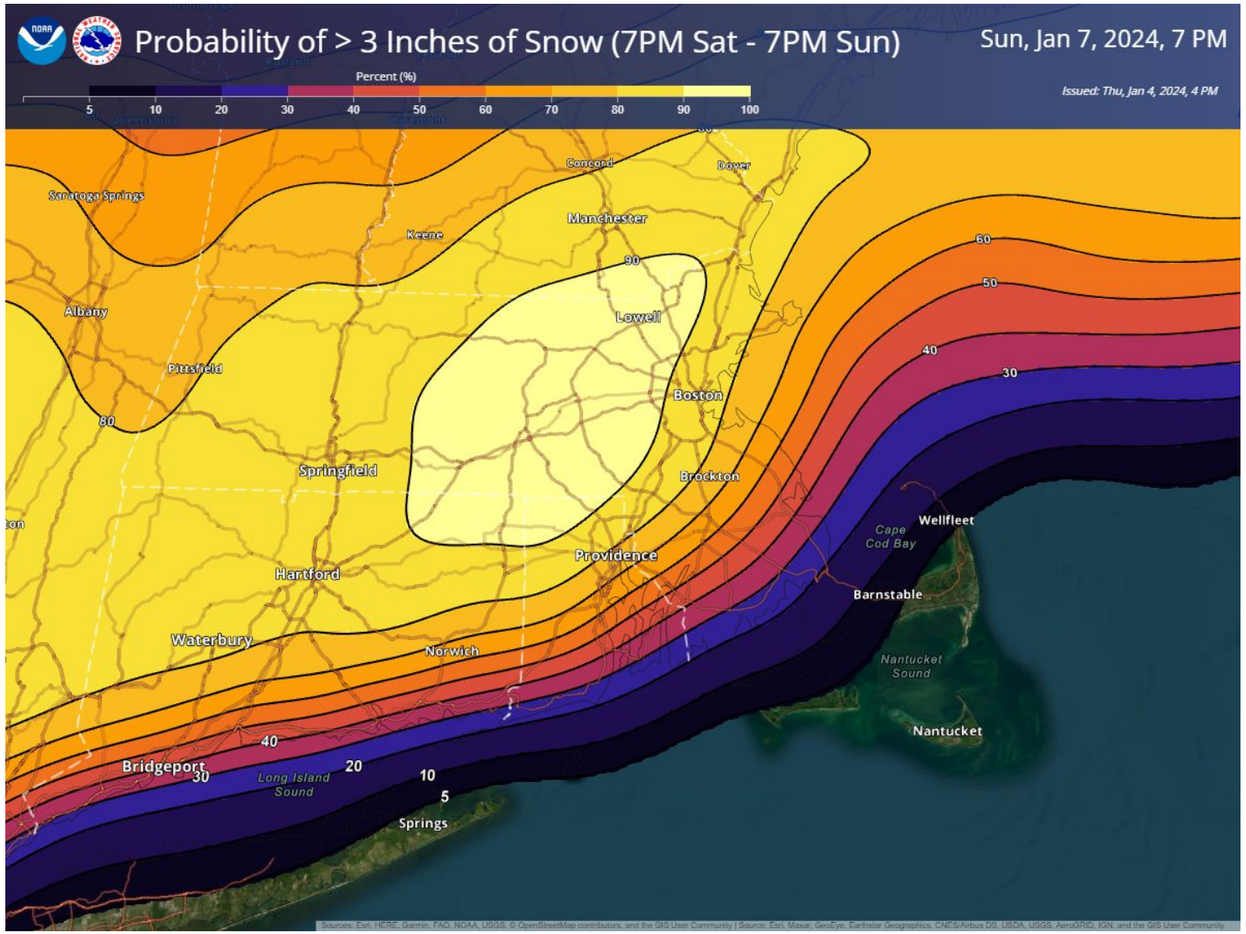
Main Points

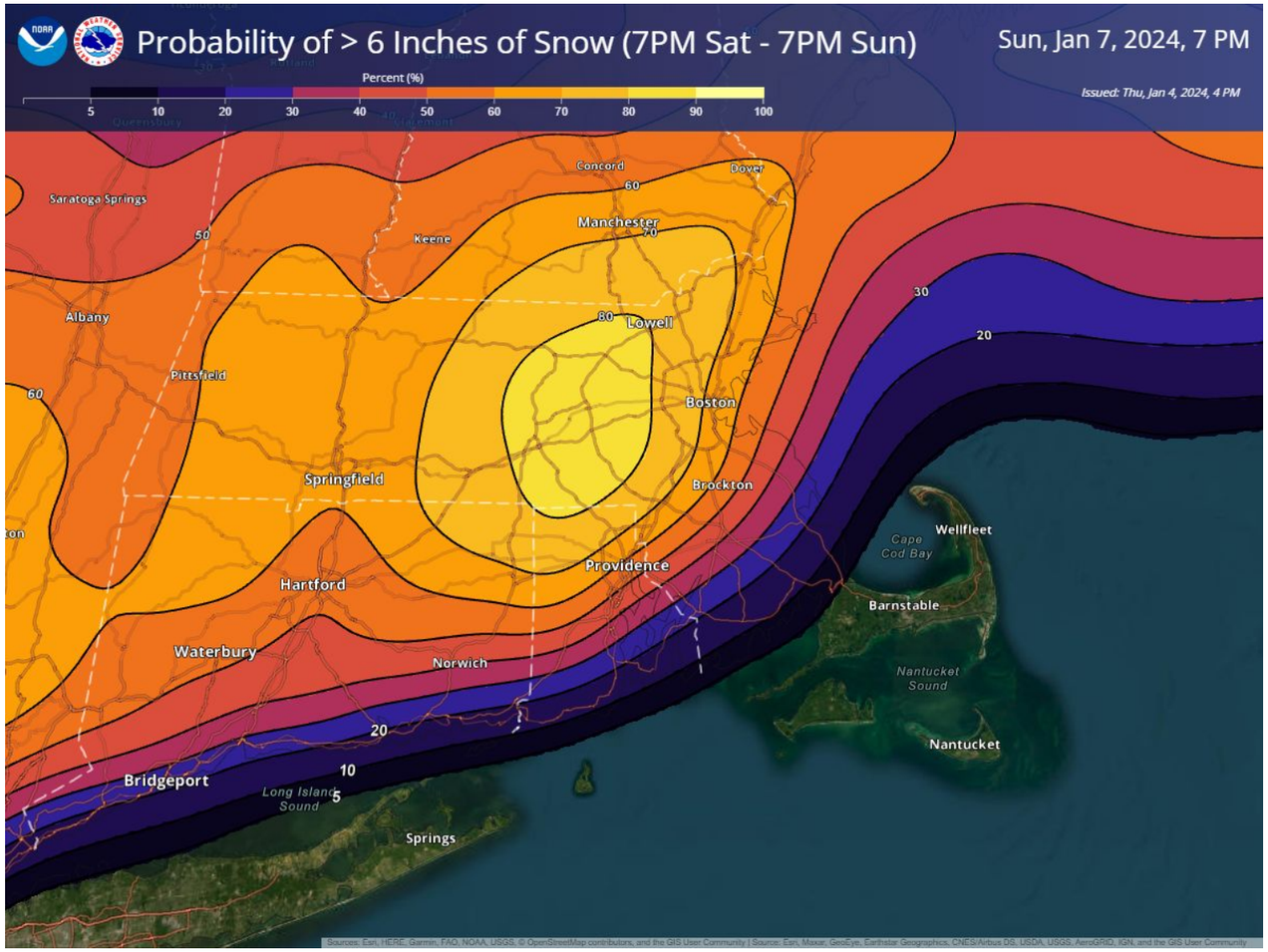
January 4, 2024
4:00 PM

Hazard	Impacts	Location	Timing
Wind/ Damaging Wind	Potential for wind gusts between 50-60mph	Cape Cod and the Islands	Sunday
Coastal Flooding	Minor Coastal Flooding Possible	Nantucket East Coastal MA	Sunday Morning High Tide Monday Morning High Tide
Snow	Risk for Plowable Snow increasing, with possibility of 6 to 12”	Greatest certainty of snow accumulation NW of I-95, uncertainty along I-95/SE	Saturday Evening through Sunday Afternoon. Snow will start after 6PM Saturday
Marine	Potential for Storm Force Wind Gusts and High Seas	All waters outside Bays and Harbors	Saturday Evening through Sunday Evening

Probability of Snowfall Exceedance

January 4, 2024
4:00 PM



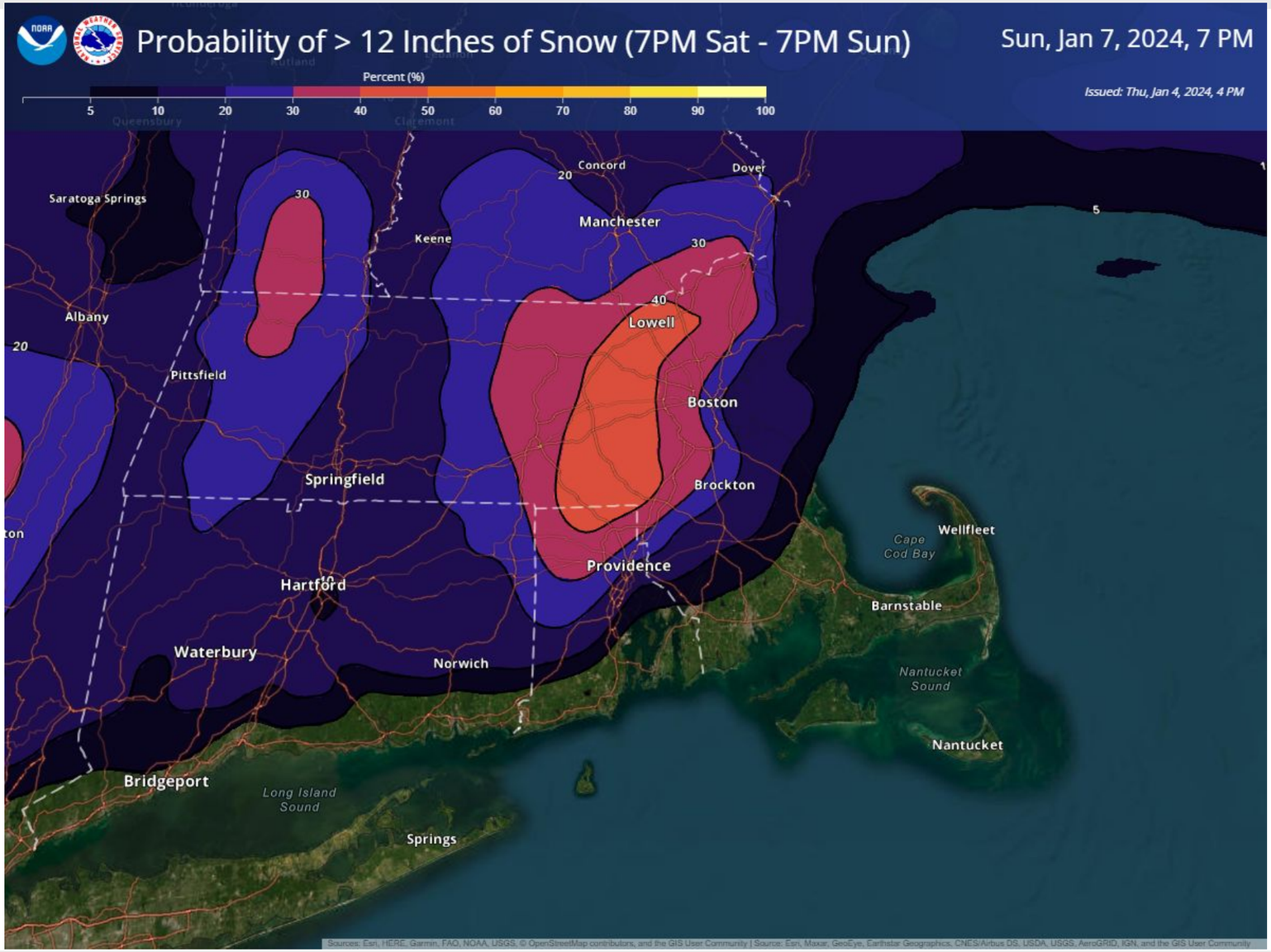


National Oceanic and Atmospheric Administration
U.S. Department of Commerce

National Weather Service
Boston / Norton, MA

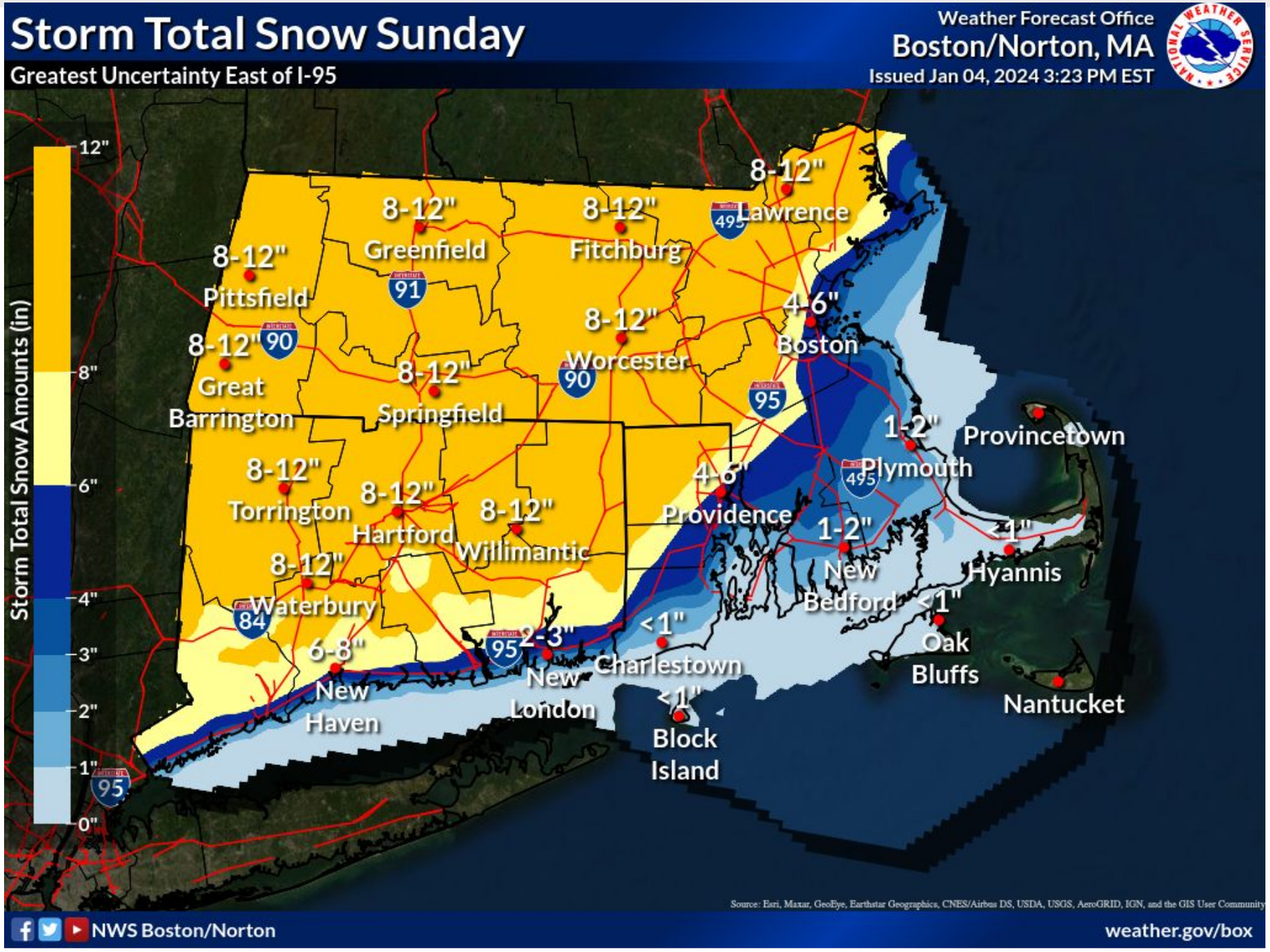
Probability of Snowfall Exceedance

January 4, 2024
4:00 PM



Expected Snowfall Forecast

January 4, 2024
4:00 PM



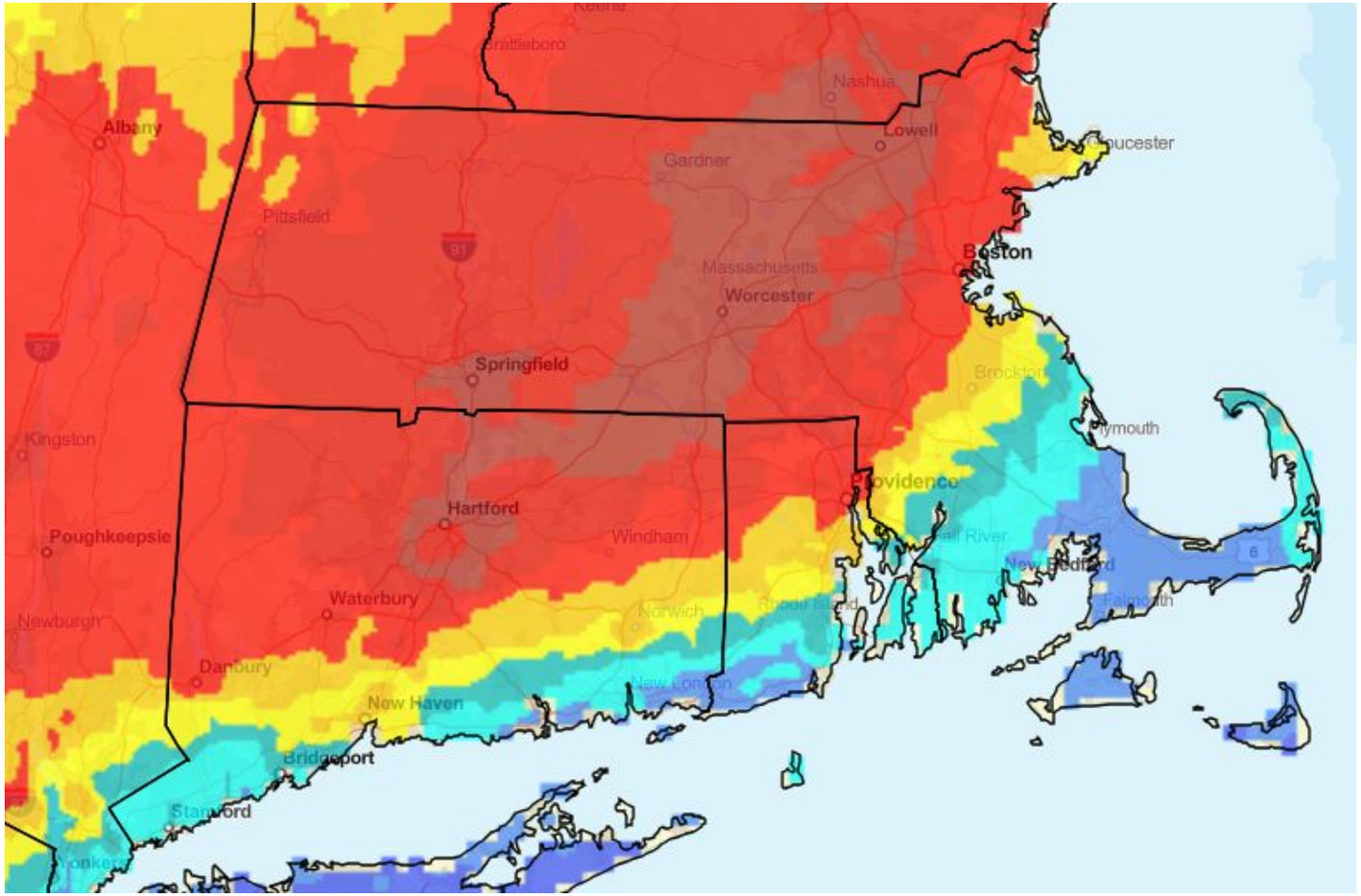
National Oceanic and Atmospheric Administration
U.S. Department of Commerce

National Weather Service
Boston / Norton, MA

Winter Storm Severity Index

January 4, 2024
4:00 PM

Probability of Moderate Impacts Saturday Night through Sunday



Potential Winter Storm Impacts	
	Minor Impacts **Expect a few inconveniences to daily life.** • Winter driving conditions. **Use caution while driving.**
	Moderate Impacts **Expect disruptions to daily life.** • Hazardous driving conditions. **Use extra caution while driving.** • Closures and disruptions to infrastructure may occur.
	Major Impacts **Expect considerable disruptions to daily life.** • Dangerous or impossible driving conditions. **Avoid travel if possible.** • Widespread closures and disruptions to infrastructure may occur.
	Extreme Impacts **Expect substantial disruptions to daily life.** • Extremely dangerous or impossible driving conditions. **Travel is not advised.** • Extensive and widespread closures and disruptions to infrastructure may occur. • Life-saving actions may be needed.

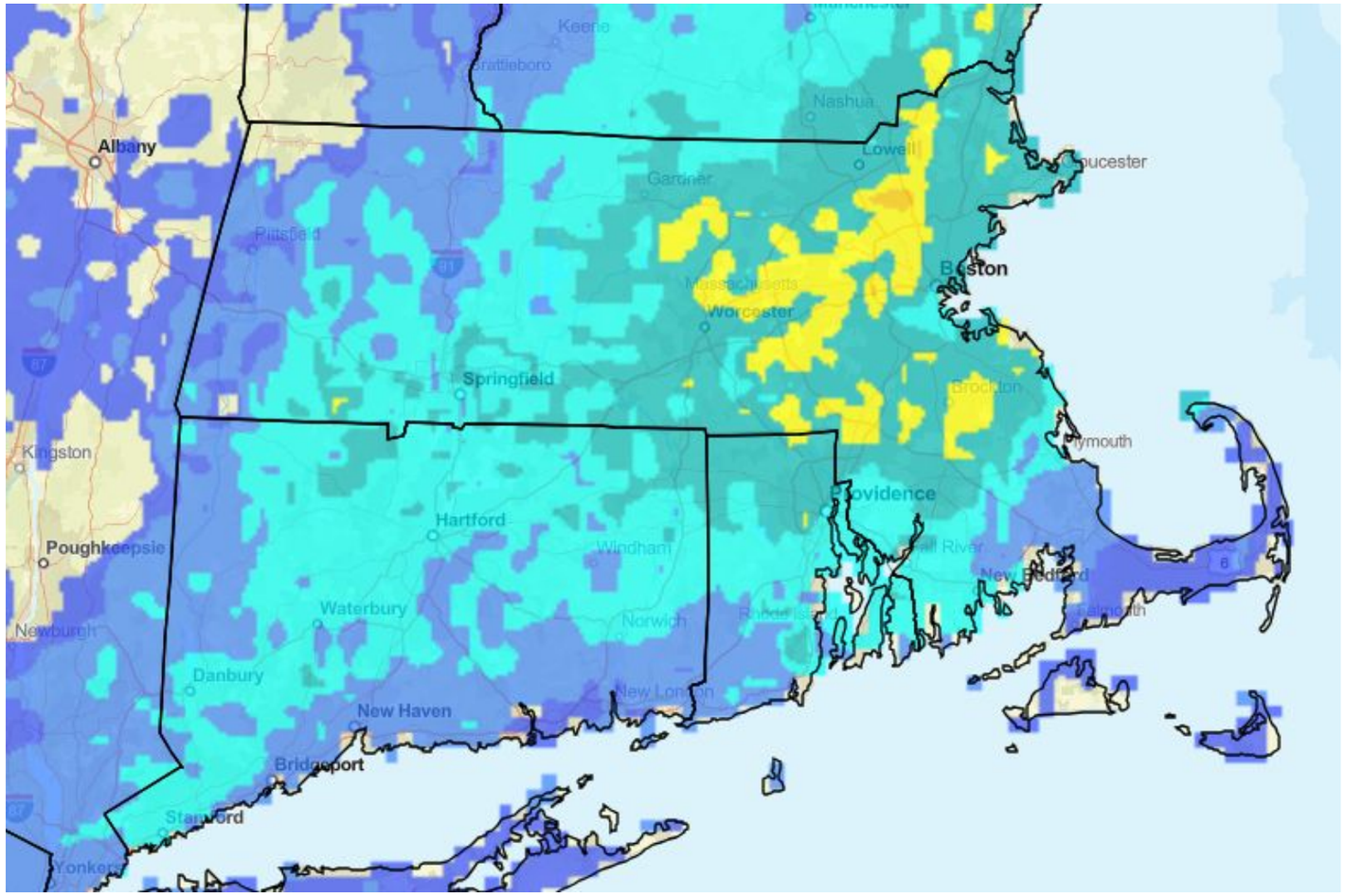
National Oceanic and Atmospheric Administration
U.S. Department of Commerce

National Weather Service
Boston / Norton, MA

Snow Load Impacts (WSSI)

January 4, 2024
4:00 PM

Probability of Moderate Impacts Saturday Night through Sunday



Potential Winter Storm Impacts	
	Minor Impacts **Expect a few inconveniences to daily life.** • Winter driving conditions. **Use caution while driving.**
	Moderate Impacts **Expect disruptions to daily life.** • Hazardous driving conditions. **Use extra caution while driving.** • Closures and disruptions to infrastructure may occur.
	Major Impacts **Expect considerable disruptions to daily life.** • Dangerous or impossible driving conditions. **Avoid travel if possible.** • Widespread closures and disruptions to infrastructure may occur.
	Extreme Impacts **Expect substantial disruptions to daily life.** • Extremely dangerous or impossible driving conditions. **Travel is not advised.** • Extensive and widespread closures and disruptions to infrastructure may occur. • Life-saving actions may be needed.

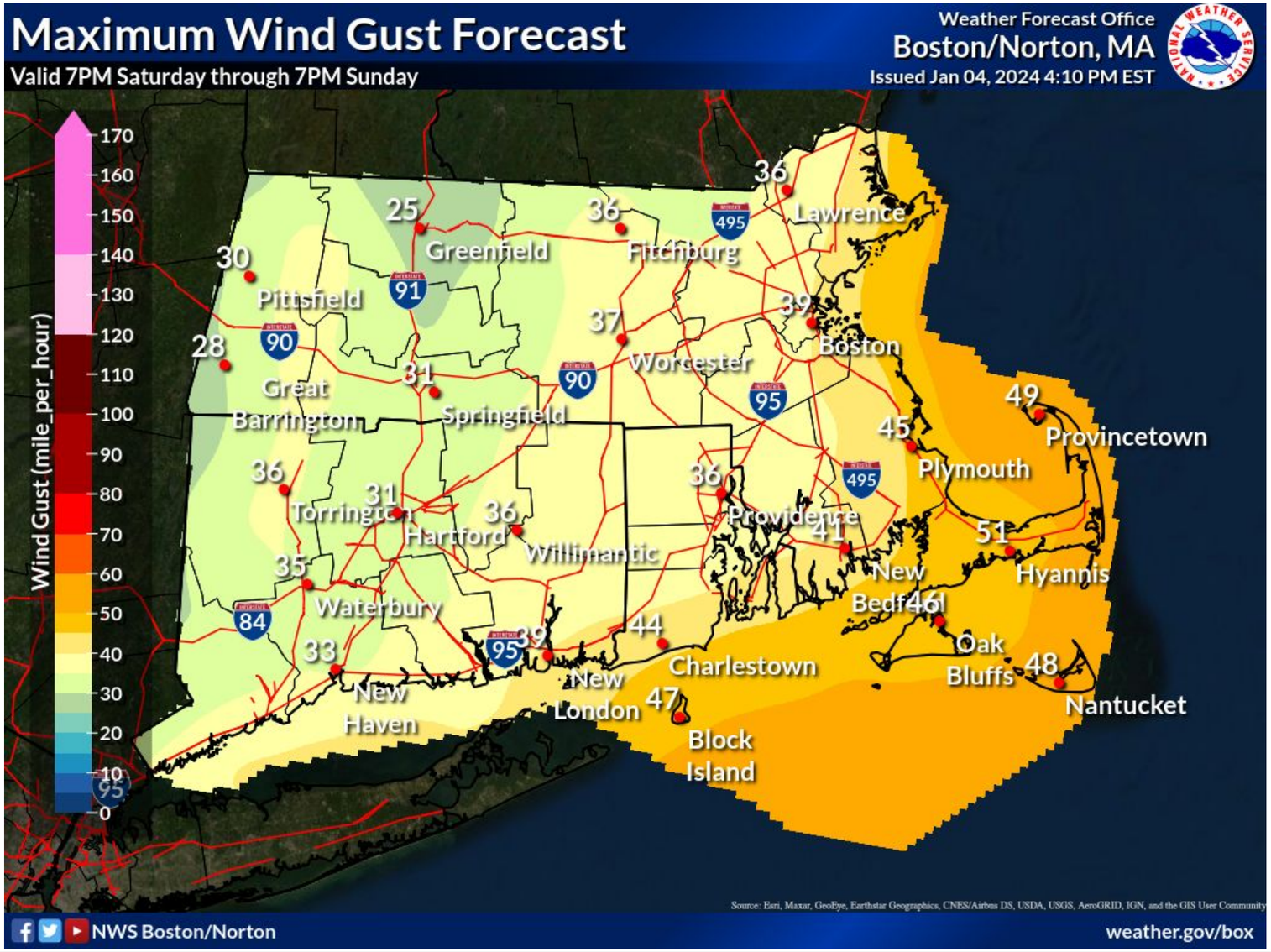
National Oceanic and Atmospheric Administration
U.S. Department of Commerce

National Weather Service
Boston / Norton, MA

Max Wind Gusts

January 4, 2024
4:00 PM

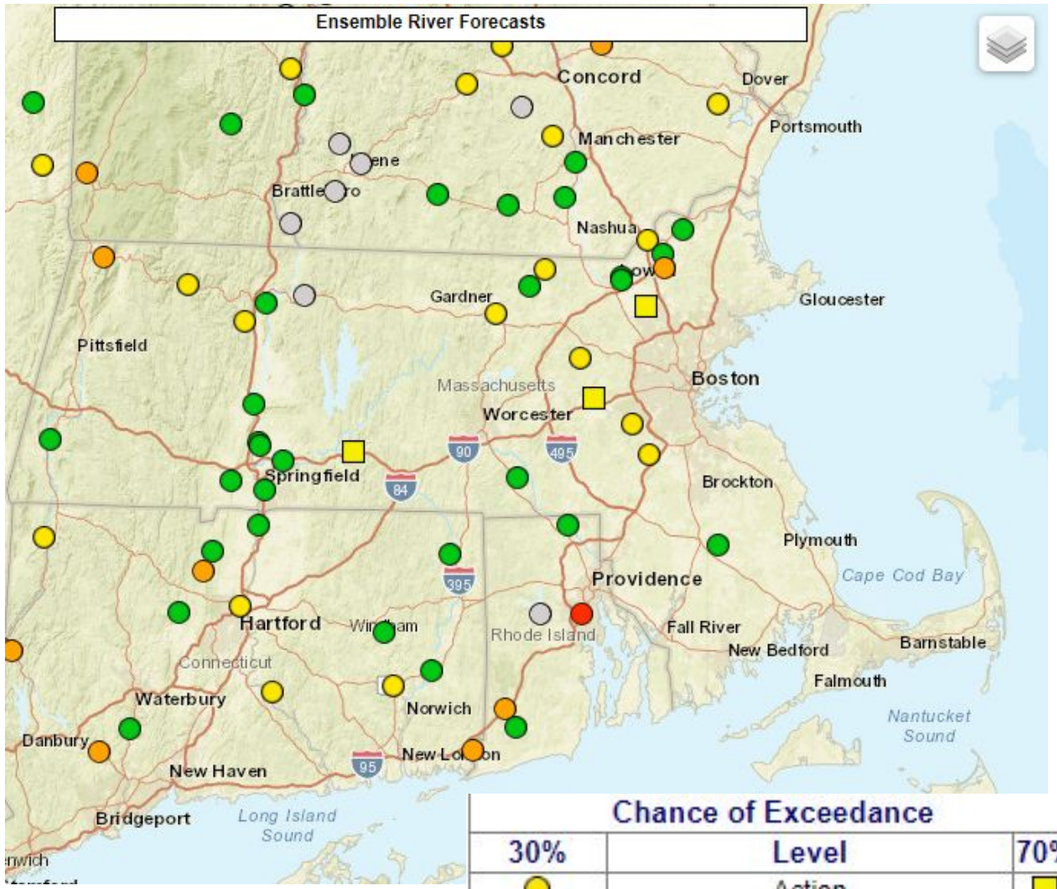
Saturday Night through Sunday



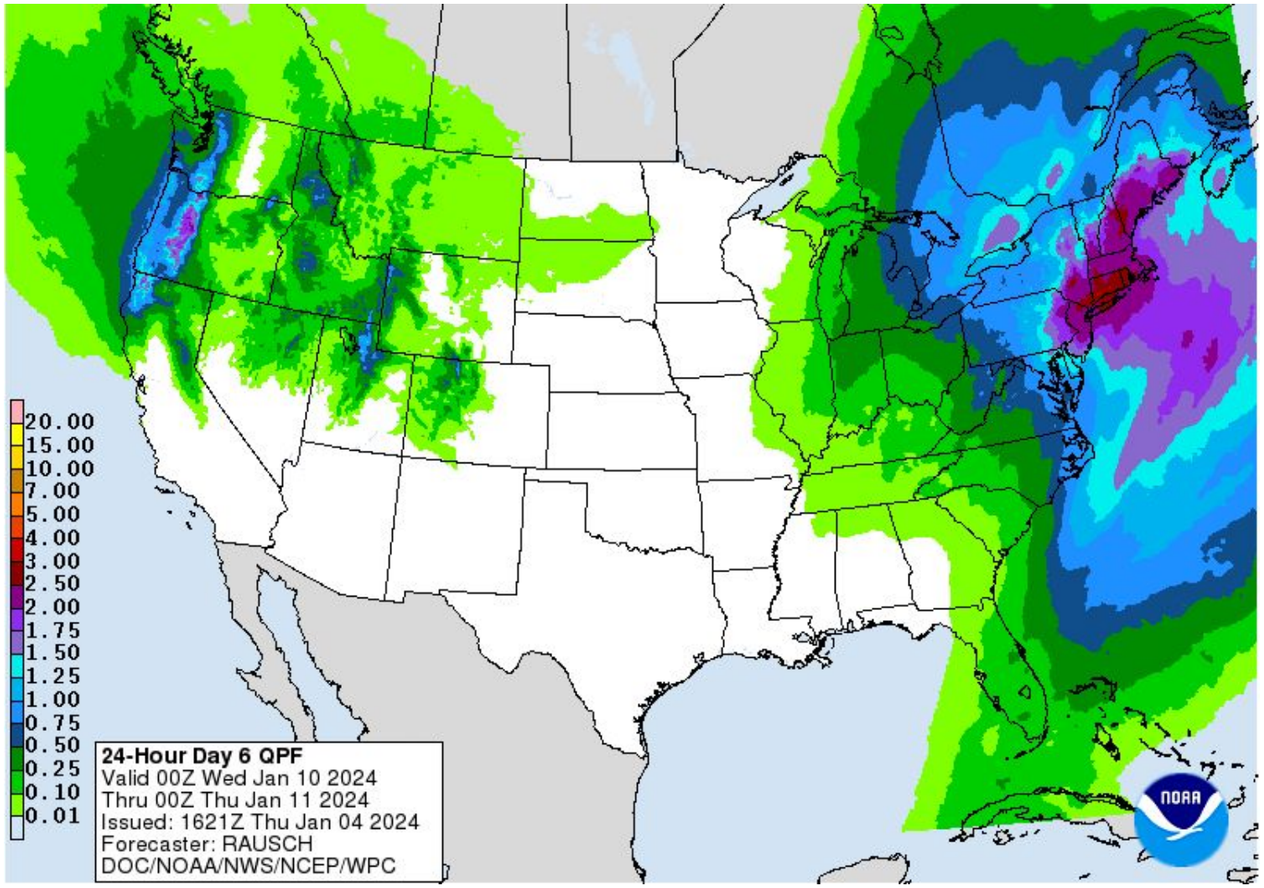
Post Storm Outlook

January 4, 2024
4:00 PM

Potential for Flooding Rain and Snowmelt Tuesday Night and Wednesday



Chance of Exceedance		
30%	Level	70%
	Action	
	Minor Flood	
	Moderate Flood	
	Major Flood	
= less than 30% chance of reaching Action level		
= no critical levels defined for this point		



Contact and Next Briefing Information

January 4, 2024
4:00 PM

For NWS Boston/Norton County Warning Area

Briefing Webpage

➔

Next Briefing

➔ By 6 AM, Friday
➔ Method: Email

Disclaimer

➔ Information contained in this briefing is time-sensitive
➔ Do Not Use After: 6 AM, Friday January 5th

Contact Information

Web

➔ weather.gov/box

Phone

➔ (508) 622-3250

Email

➔ box.operations@noaa.gov

Facebook

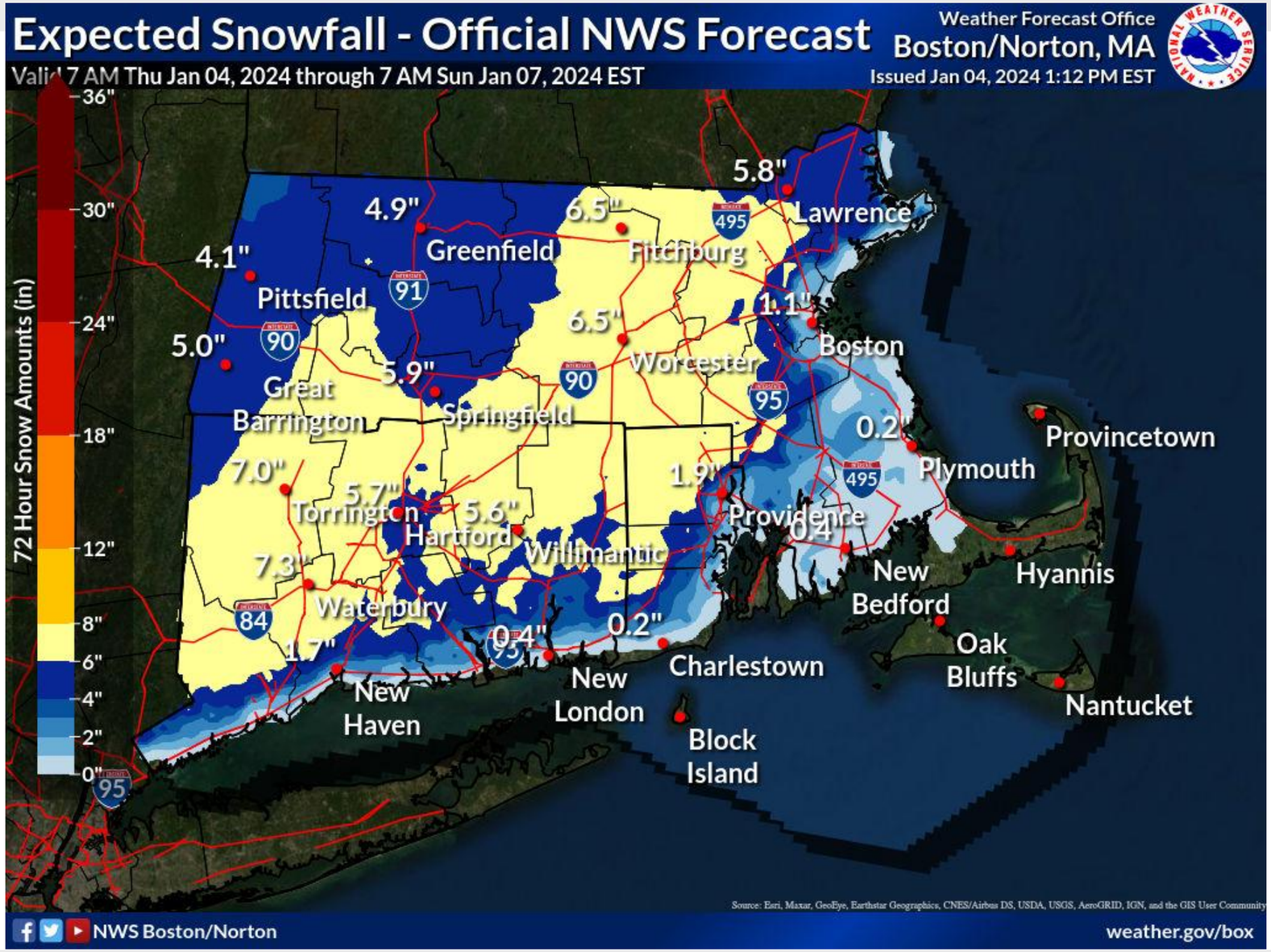
➔ www.facebook.com/NWSBoston

Twitter

➔ @NWSBoston

Forecast Storm Total Snowfall

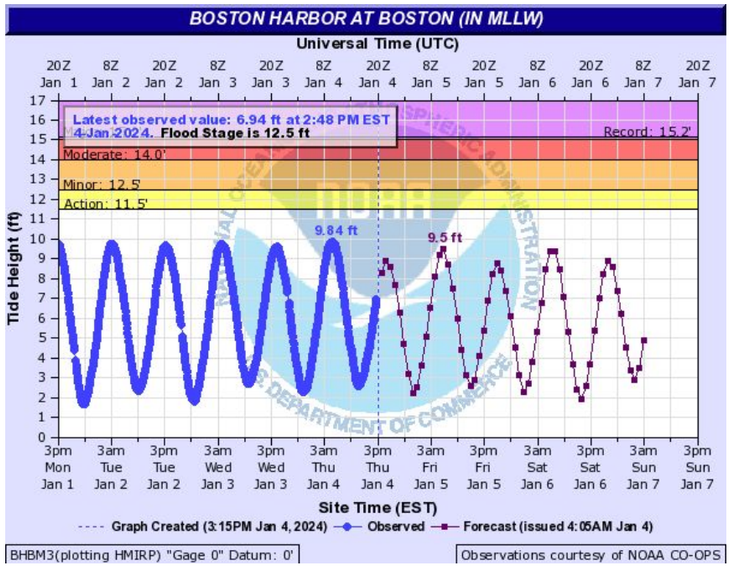
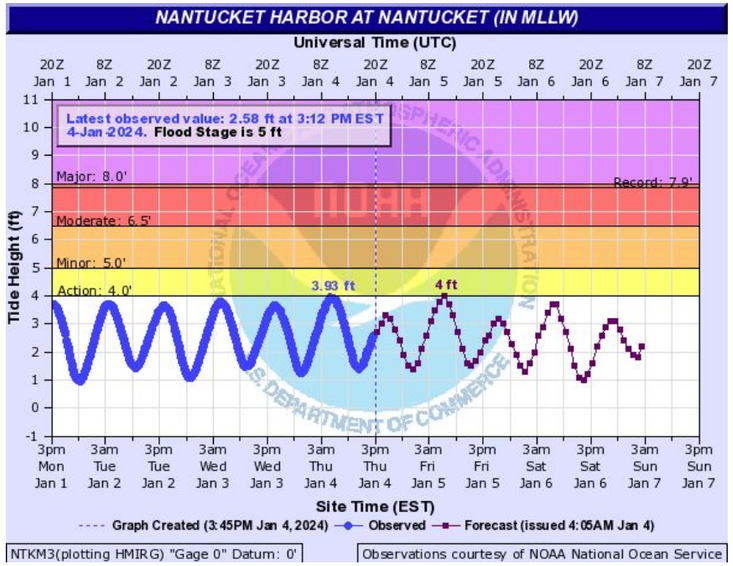
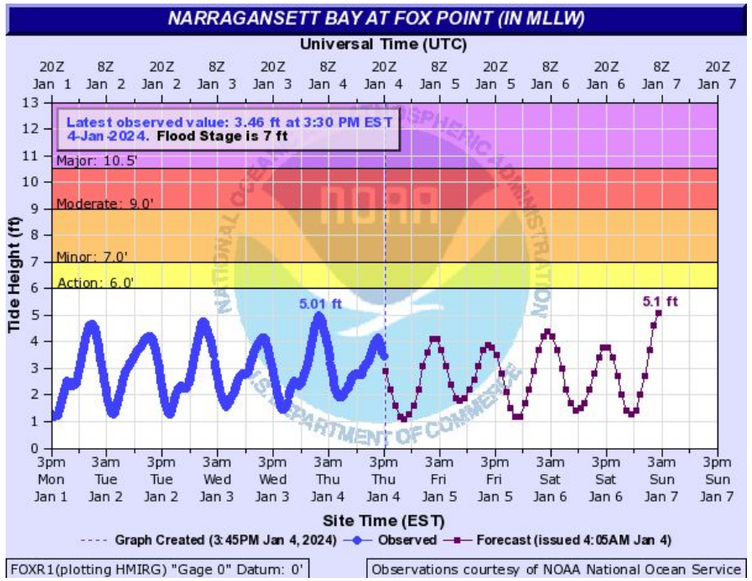
January 4, 2024
4:00 PM



National Oceanic and Atmospheric Administration
U.S. Department of Commerce

National Weather Service
Boston / Norton, MA

Coastal Flood Forecast

January 4, 2024
4:00 PM

Gauge Location	Observed (ft)	Stage	Forecast (ft)	Stage
Atlantic Coast @ Gloucester (IN MLLW)	3.97	No Flooding	11.60	Minor
Boston Harbor @ Boston (IN MLLW)	5.27	No Flooding	12.10	Action
Massachusetts Bay @ Scituate (IN MLLW)	5.73	No Flooding	11.40	Action
Nantucket Harbor @ Nantucket (IN MLLW)	2.42	No Flooding	4.80	Action
Narragansett Bay @ Fox Point (IN MLLW)	-0.05	No Flooding	6.70	Action
Buzzards Bay @ New Bedford Hurricane Barrier (IN MLLW)	-0.44	No Flooding	5.50	Action