



Winter Weather Briefing

March 14, 2023
3:04 AM

For Southern New England

Decision Support Briefing #3

→ As of 4 AM Tuesday, March 14, 2023
Important Updates

NEW

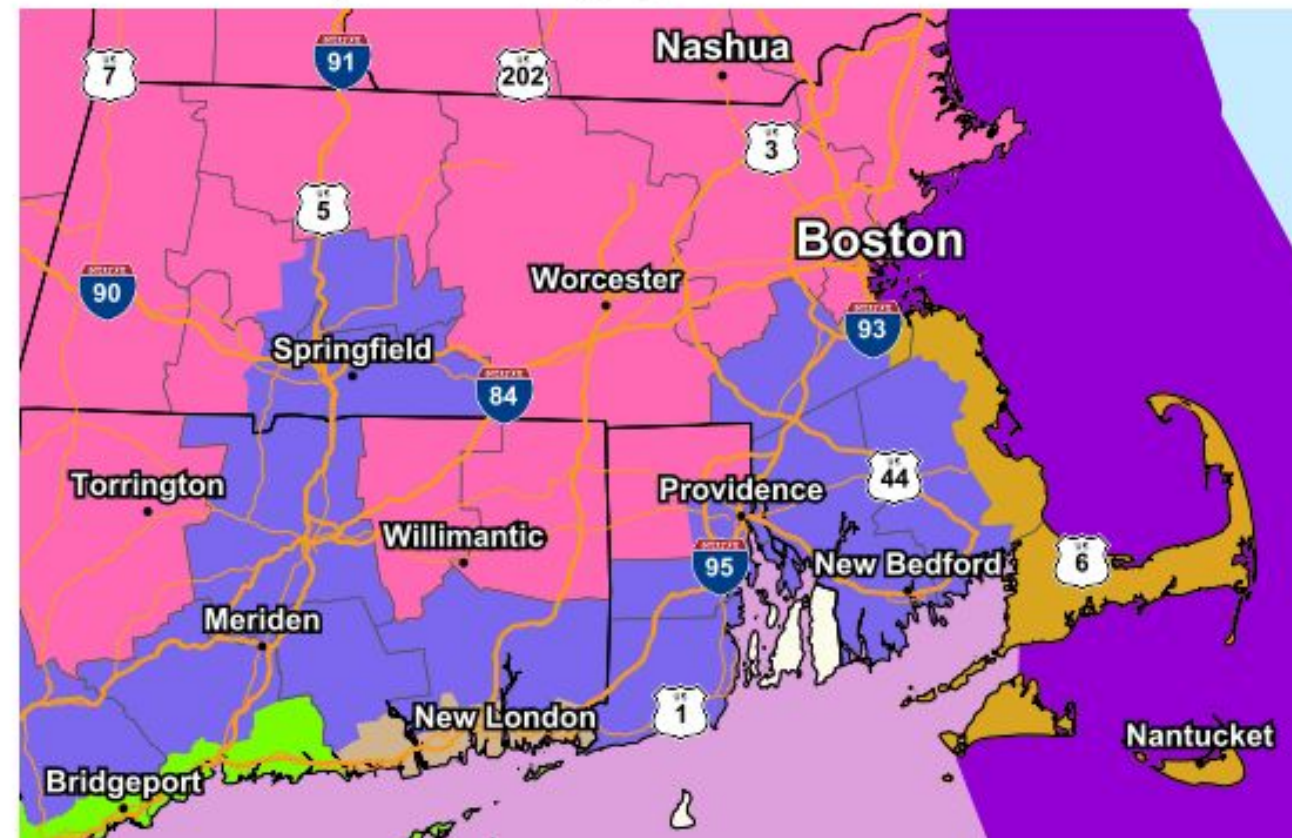
- Winter Storm Warnings expanded east to eastern Essex, Suffolk, and southeast Middlesex counties
- Expanded Coastal Flood Advisory to Nantucket

Hazards



Current Watches, Warnings, and Advisories

- Winter Storm Warning
- High Wind Warning
- Storm Warning
- Gale Warning
- Winter Weather Advisory
- Coastal Flood Advisory
- Small Craft Advisory
- Wind Advisory
- Coastal Flood Watch
- Coastal Flood Statement



Graphic Created
March 14th, 2023
2:26 AM CDT



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

National Weather Service
Boston / Norton, MA

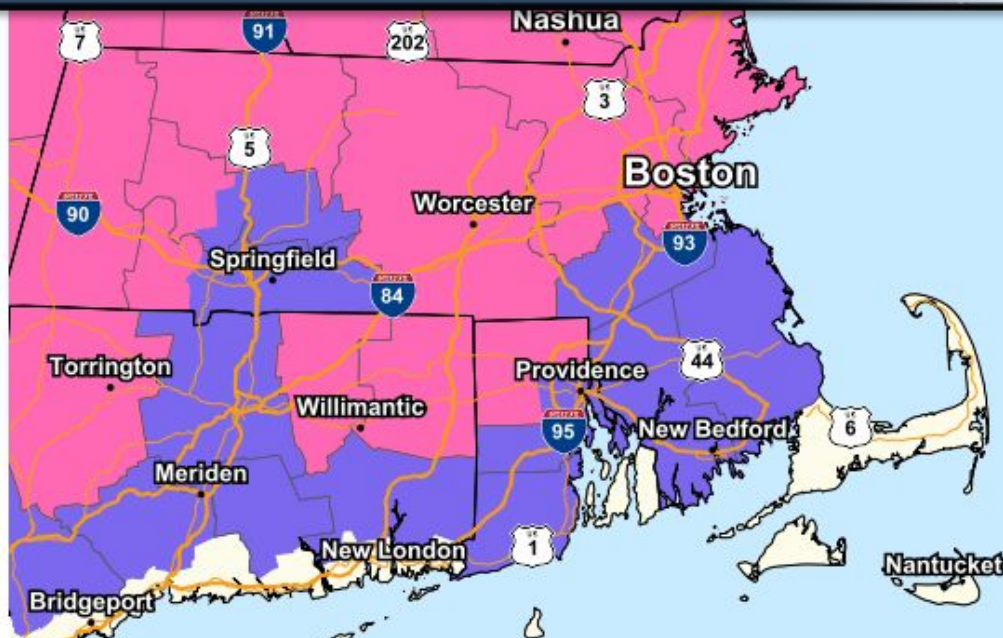


Active Headlines

March 14, 2023
3:04 AM

Winter Weather Hazards

- Winter Storm Warning
- Winter Weather Advisory



Graphic Created
March 14th, 2023
2:26 AM CDT

Marine / Coastal Hazards

- Storm Warning
- Gale Warning
- Coastal Flood Advisory
- Small Craft Advisory
- Coastal Flood Watch
- Coastal Flood Statement



Graphic Created
March 14th, 2023
2:27 AM CDT

Wind Related Hazards

- High Wind Warning
- Wind Advisory



Graphic Created
March 14th, 2023
2:27 AM CDT

Flooding Hazards

- High Wind Warning
- Wind Advisory



Graphic Created
March 14th, 2023
2:27 AM CDT







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

National Weather Service
Boston / Norton, MA



Main Points

March 14, 2023
3:04 AM

Hazard	Impacts	Location	Timing
Wind/ Damaging Wind 	25-35 mph w/ gusts 55-65 mph Tree limbs/power lines/ isolated trees downed Power outages likely	Eastern MA	Today- Wednesday Peaking Tuesday Afternoon/Evening Diminishing below 30 mph Wednesday night
Snow 	Snow loading on trees/power lines; morning commute (west) and evening commute (east) Power outages likely	Anywhere that receives 4 or more inches of heavy, wet snow	Snow continues across the high terrain, rain transitions to snow at all locations today Lingering into Wed. AM in northern/eastern MA
Marine 	Storm conditions with 20-25 ft seas eastern MA; Gales with 5-10 ft seas RI coast	Eastern MA waters	Today through Wednesday
Coastal Flooding 	Widespread minor coastal flooding	Eastern Massachusetts and Nantucket	Three high tide cycles, from 4-5 AM Today through 5-6 AM Wednesday



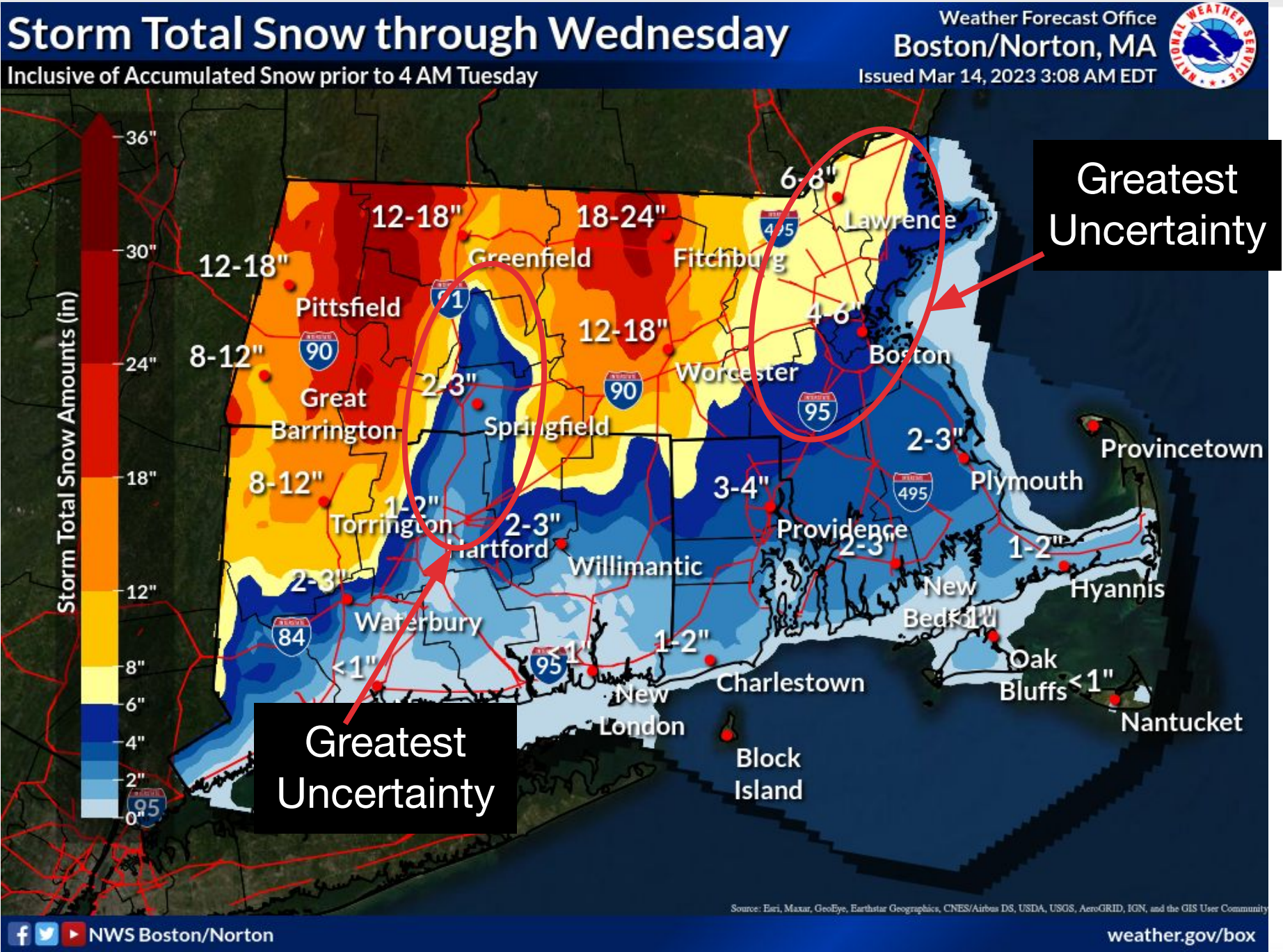


Forecast Storm Total Snowfall

March 14, 2023
3:04 AM

Snowfall amounts will vary greatly depending on elevation

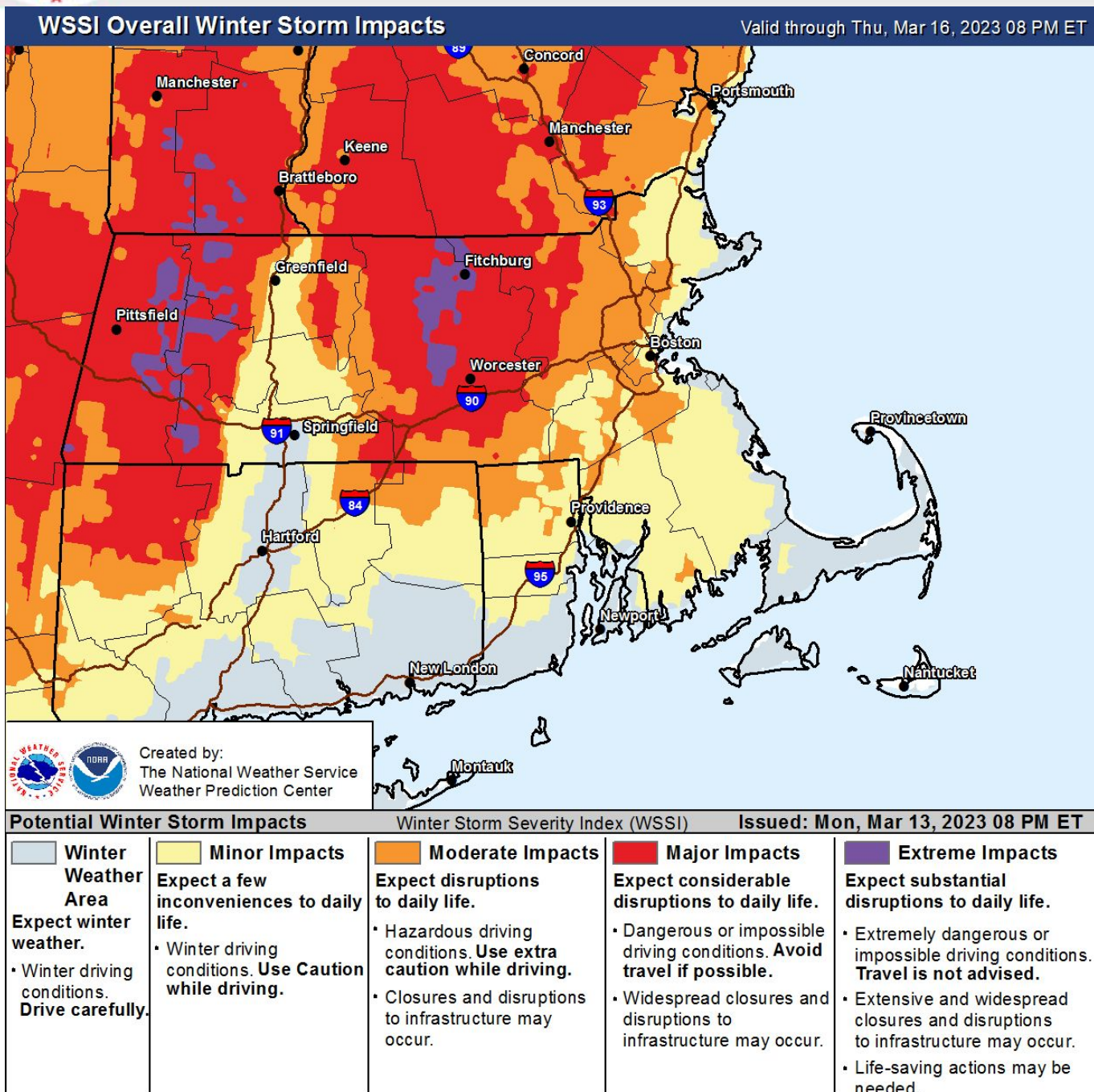
Greatest uncertainty remains in the lower elevations of the CT River Valley and across eastern MA, where storm totals are highly dependent on storm track





Snow Loading on Trees/Powerlines

March 14, 2023
3:04 AM



Winter Storm Severity Index (WSSI)

<https://www.wpc.ncep.noaa.gov/wwd/wssi/wssi.php>

Snow Load Component highlights the higher elevation regions with the highest risk of impacts from significant accumulations of wet/heavy snow on trees and powerlines

Expectation is that minor impacts will occur with at least 4" of snow

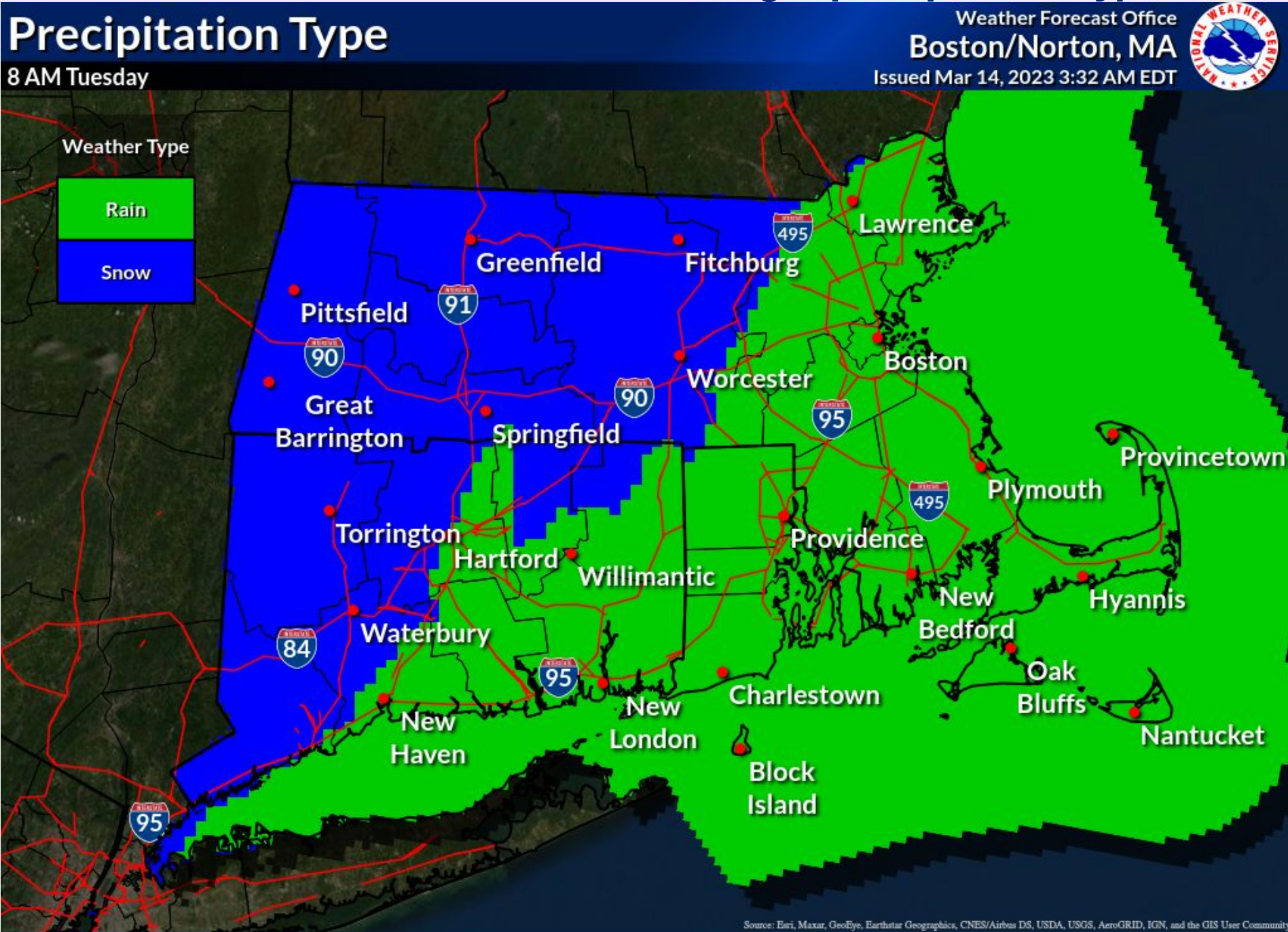




Precipitation Type 8 AM This Morning

March 14, 2023
3:04 AM

Rain/Snow Line consistent with observed overnight precipitation type around 8 AM



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

[f](#) [t](#) [v](#) NWS Boston/Norton

weather.gov/box

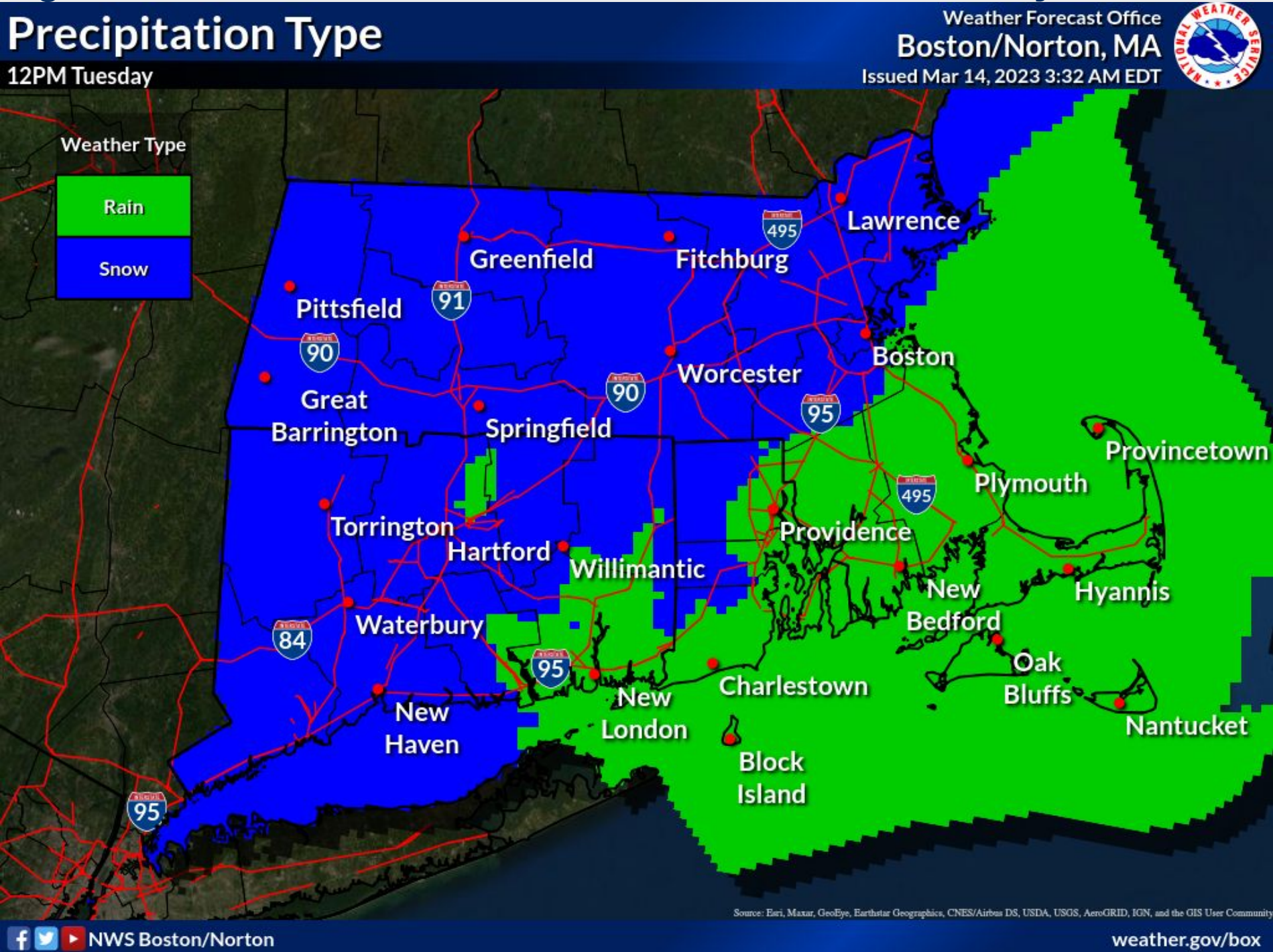
National Weather Service
Boston / Norton, MA



Precipitation Type Noon Today

March 14, 2023
3:04 AM

Rain Changes to Snow at Boston/Providence around Noon today



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

[f](#) [t](#) [v](#) NWS Boston/Norton

weather.gov/box

National Weather Service
Boston / Norton, MA



Precipitation Type 6PM This Afternoon

March 14, 2023
3:04 AM

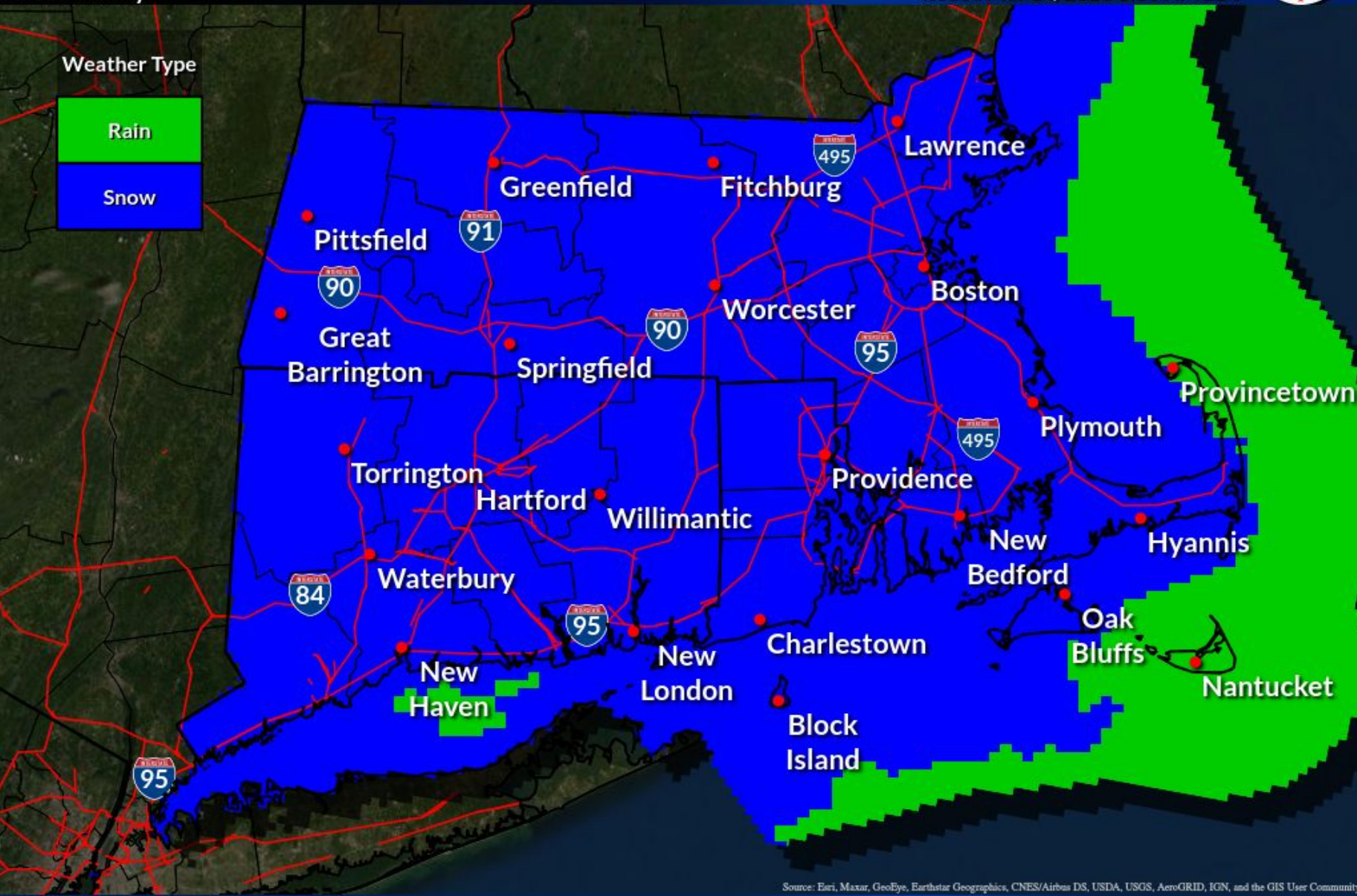
Snow Expected Region Wide by 6 PM Today

Precipitation Type

6PM Tuesday

Weather Forecast Office
Boston/Norton, MA

Issued Mar 14, 2023 3:33 AM EDT



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

NWS Boston/Norton

weather.gov/box



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

National Weather Service
Boston / Norton, MA

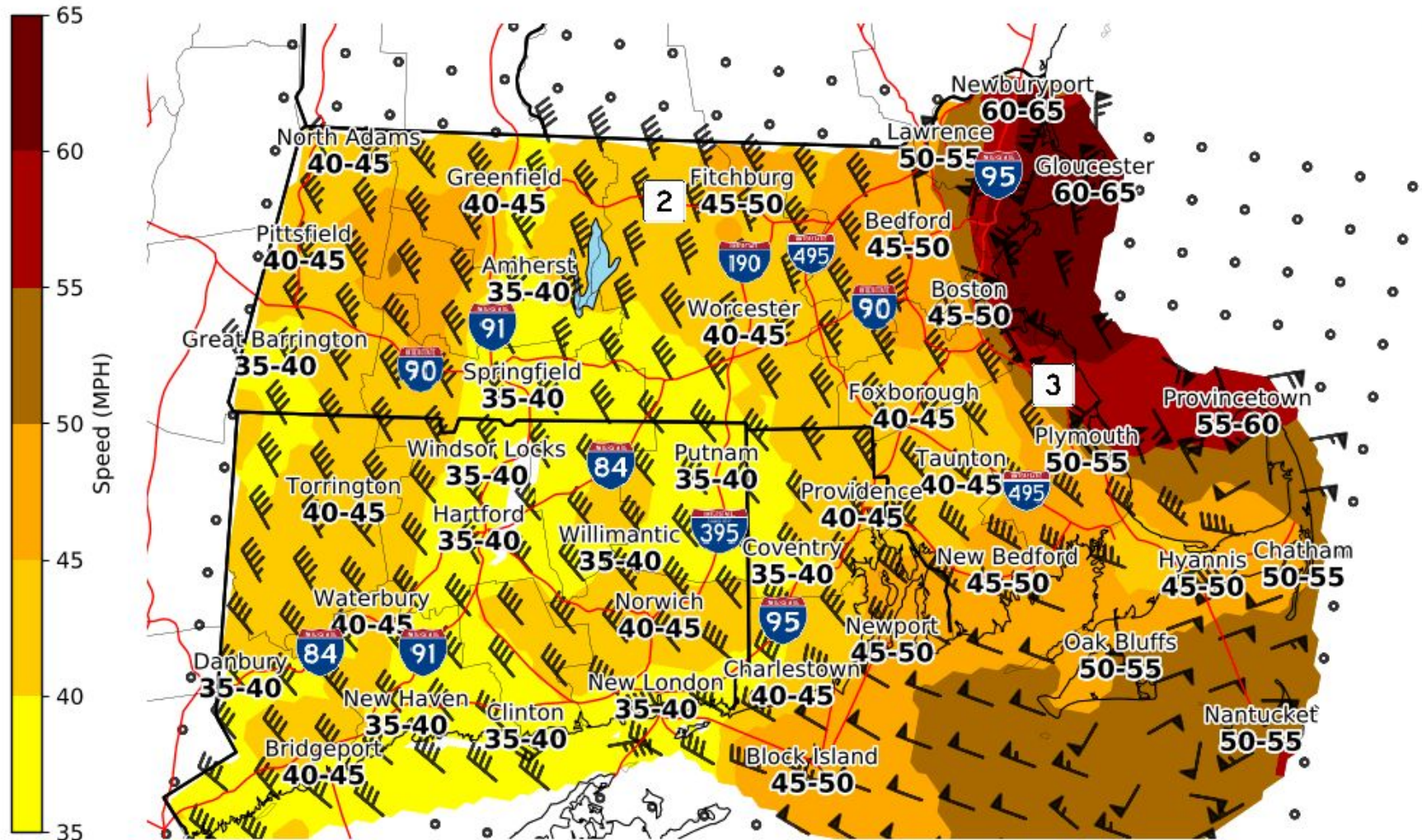


Forecast Wind Gusts

March 14, 2023
3:04 AM

Max Wind Gusts (MPH)

Valid: 03/13/2023 08:00 PM - 03/15/2023 08:00 AM EDT



Timing:

Strongest Gusts

- South Shore, Cape and Islands generally Tuesday morning
- Northeast MA/Cape Ann Tuesday afternoon

Wind Gusts drop below 30-35 mph late Wednesday afternoon



National Weather Service
Boston/Norton, MA
03/14/2023 02:37 AM EDT

Follow Us:   
weather.gov/Boston



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

National Weather Service
Boston / Norton, MA



Temperatures and Wind Gusts

March 14, 2023
3:04 AM

Maximum Temperature Forecast

	3/14 Tue				3/15 Wed				Maximum
	12am	6am	12pm	6pm	12am	6am	12pm	6pm	
Block Island	43	42	38	37	37	39	41	40	43
Boston	40	40	36	34	34	38	41	40	41
Brockton	42	40	37	33	33	37	41	39	42
Cambridge	41	40	36	34	34	38	42	40	42
Gloucester	41	40	36	37	35	38	41	39	41
Hartford	39	39	36	34	34	37	41	39	41
Hyannis	43	43	40	35	35	38	41	40	43
Lowell	39	38	34	32	32	37	41	38	41
Nantucket	43	43	39	37	36	39	41	40	43
New Bedford	44	42	39	34	33	40	43	40	44
Providence	41	41	38	33	33	39	41	40	41
Quincy	41	40	37	34	34	38	41	40	41
Springfield	37	37	36	33	32	37	40	39	40
Vineyard Haven	41	42	39	36	36	38	41	40	42
Worcester	36	36	33	32	31	35	37	36	37

*Table values in °F

**Created: 3 am EDT Tue 3/14/2023

***Values are maximums over the period beginning at the time shown.

Don't see your city? Check out weather.gov/forecastpoints

Maximum Wind Gust Forecast

	3/14 Tue				3/15 Wed				Maximum
	12am	6am	12pm	6pm	12am	6am	12pm	6pm	
Block Island	39	36	32	47	44	40	31	31	47
Boston	41	48	54	52	43	33	32	32	54
Brockton	36	36	39	46	39	32	32	32	46
Cambridge	40	48	52	52	41	33	33	32	52
Gloucester	43	53	64	64	48	38	33	35	64
Hartford	23	24	26	35	36	40	40	38	40
Hyannis	41	44	44	48	41	40	33	32	48
Lowell	31	33	40	52	37	30	35	33	52
Nantucket	43	52	53	52	45	41	33	33	53
New Bedford	37	41	29	48	41	35	33	31	48
Providence	29	33	28	46	38	33	30	29	46
Quincy	40	43	54	52	44	33	33	33	54
Springfield	26	30	31	36	38	39	40	37	40
Vineyard Haven	43	51	41	51	45	40	30	31	51
Worcester	28	30	33	47	38	36	36	36	47

*Table values in mph

**Created: 3 am EDT Tue 3/14/2023

***Values are maximums over the period beginning at the time shown.

Don't see your city? Check out weather.gov/forecastpoints



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

National Weather Service
Boston / Norton, MA



Coastal Flood Forecast

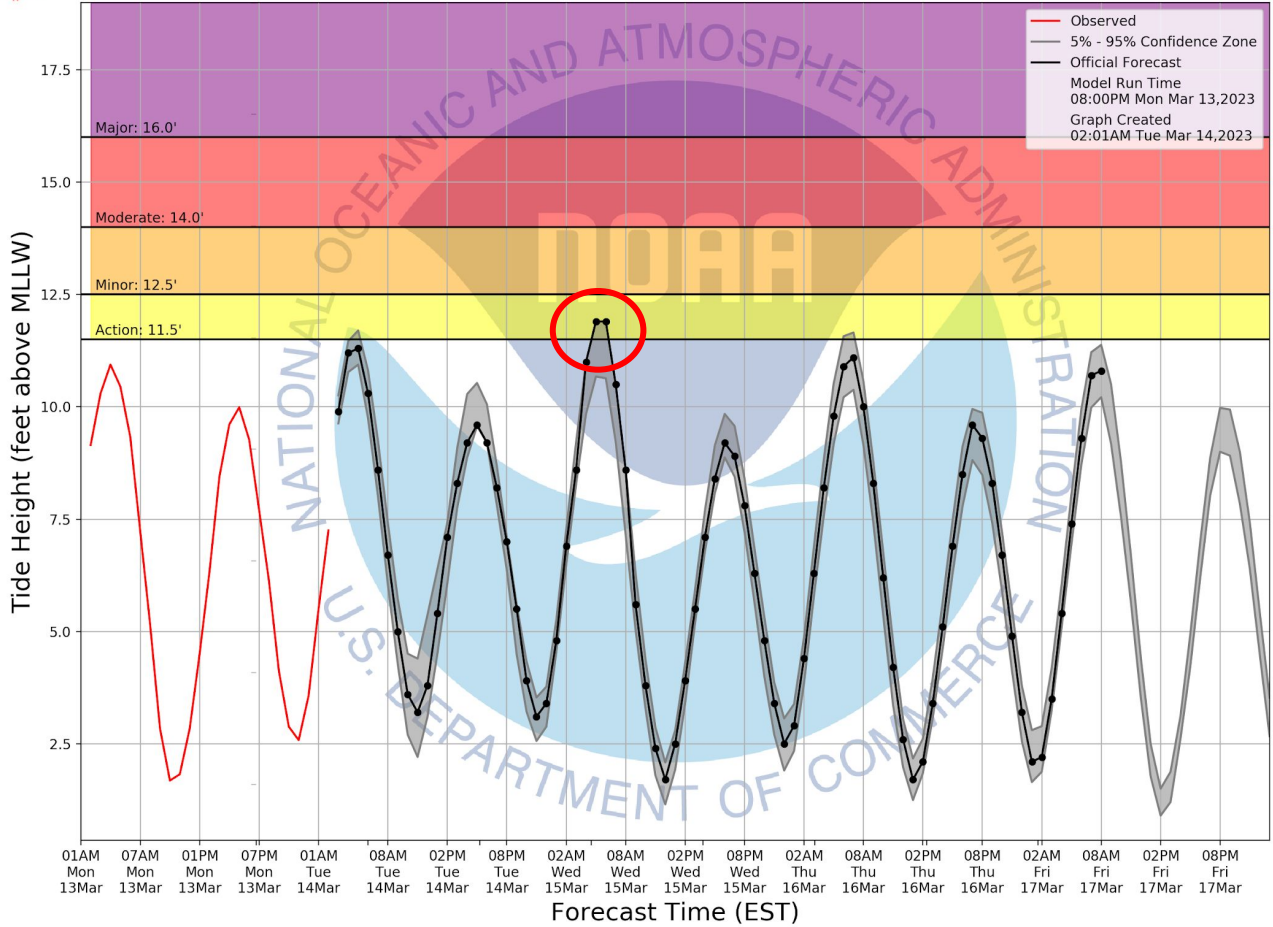
March 14, 2023
3:04 AM

Graphs Showing Possible Forecast Ranges

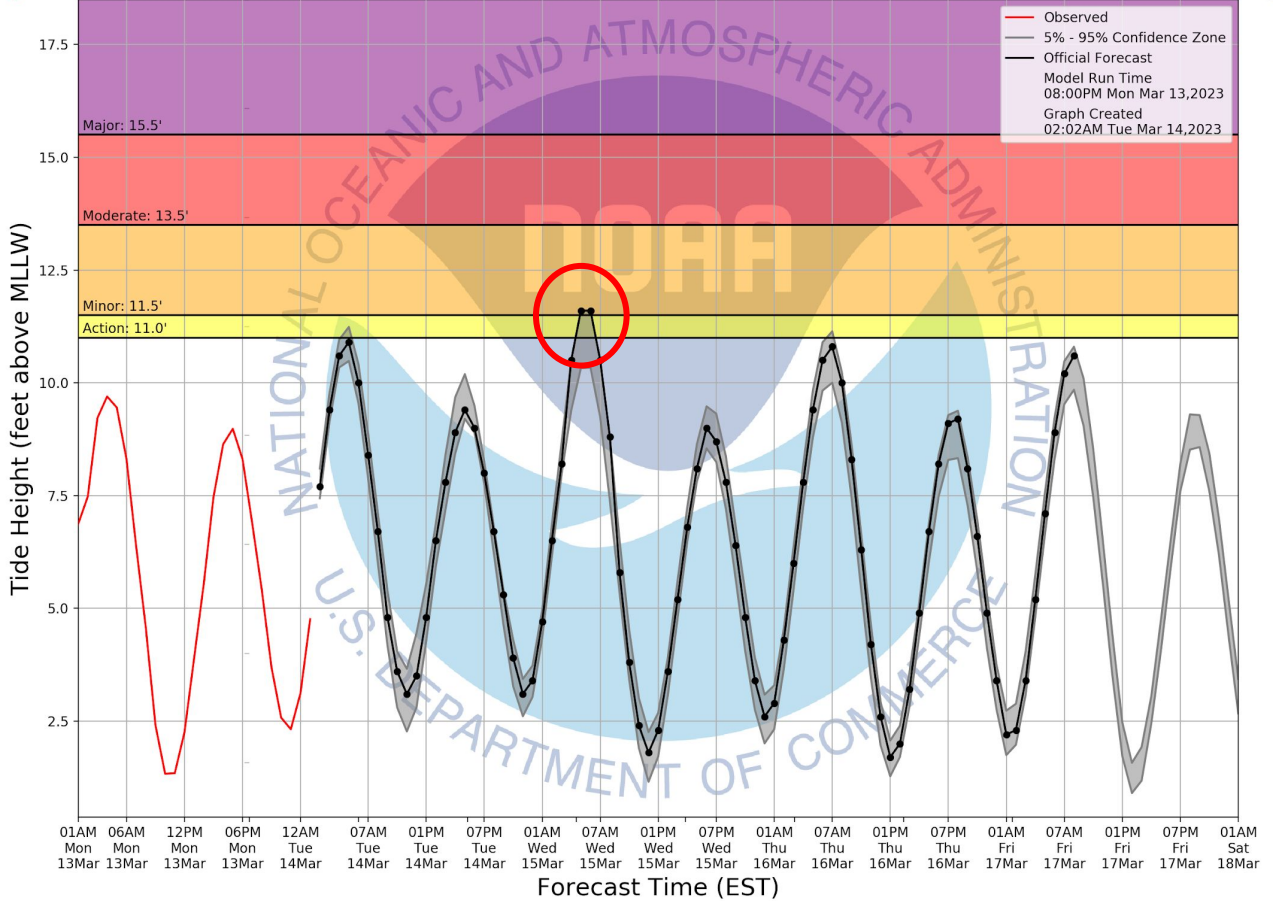
High tide of concern is early Wednesday morning (5-6 AM). Impacts may be higher due to wave action. Expecting a 2 to 3 foot storm surge, yielding 11-12 ft MLLW in Boston Harbor and at Scituate.



Boston Harbor at Boston, MA
Tide Height (MLLW)



Massachusetts Bay at Scituate, MA
Tide Height (MLLW)





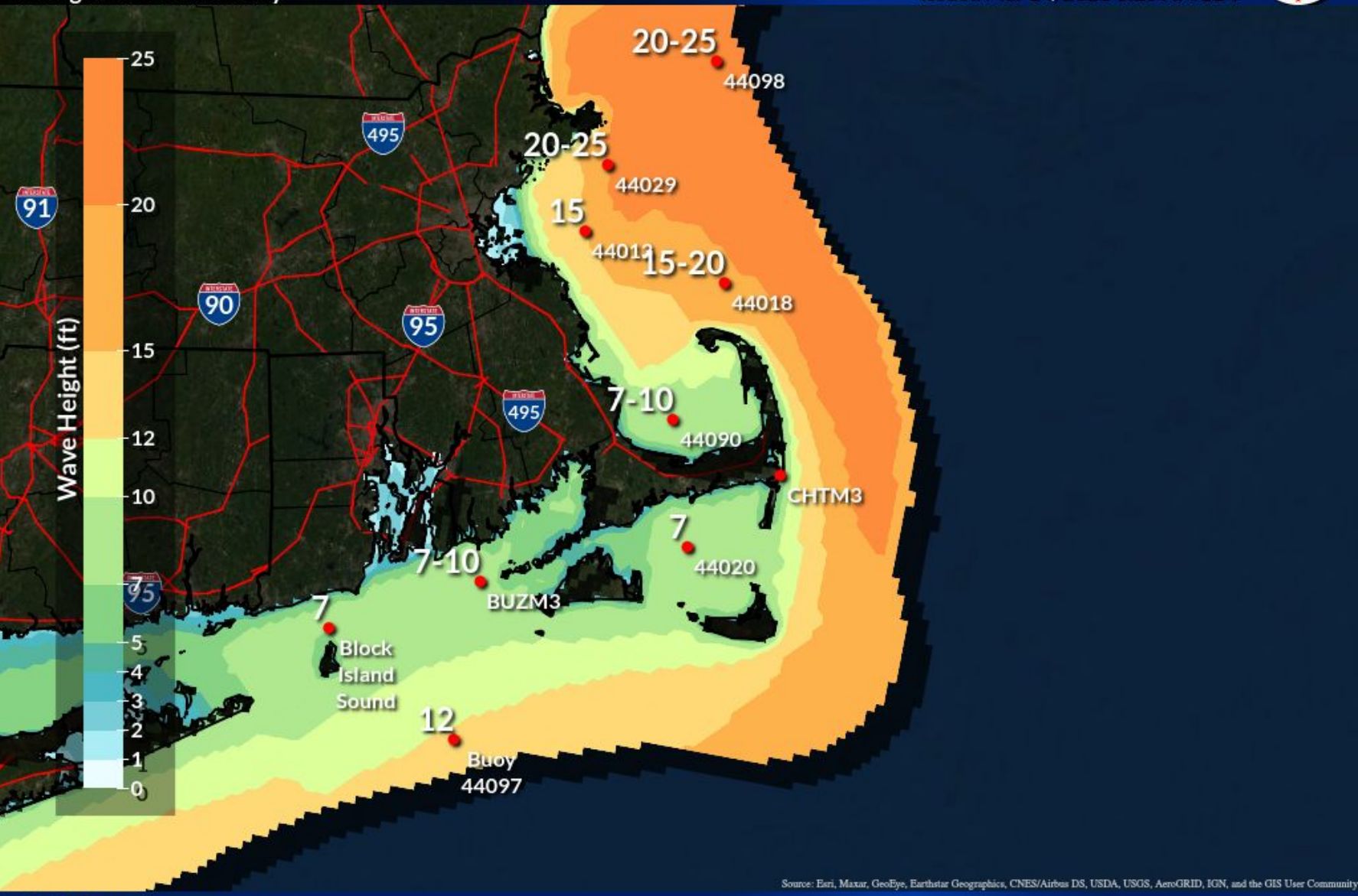
Maximum Wave Heights

March 14, 2023
3:04 AM

Maximum Wave Heights

Through 8AM Wednesday

Weather Forecast Office
Boston/Norton, MA
Issued Mar 14, 2023 3:25 AM EDT



NWS Boston/Norton

weather.gov/box

Highest waves expected during the day Tuesday

Will coincide with the time of strongest winds (40-50 knots closer to land, and in excess of 50 knots offshore)



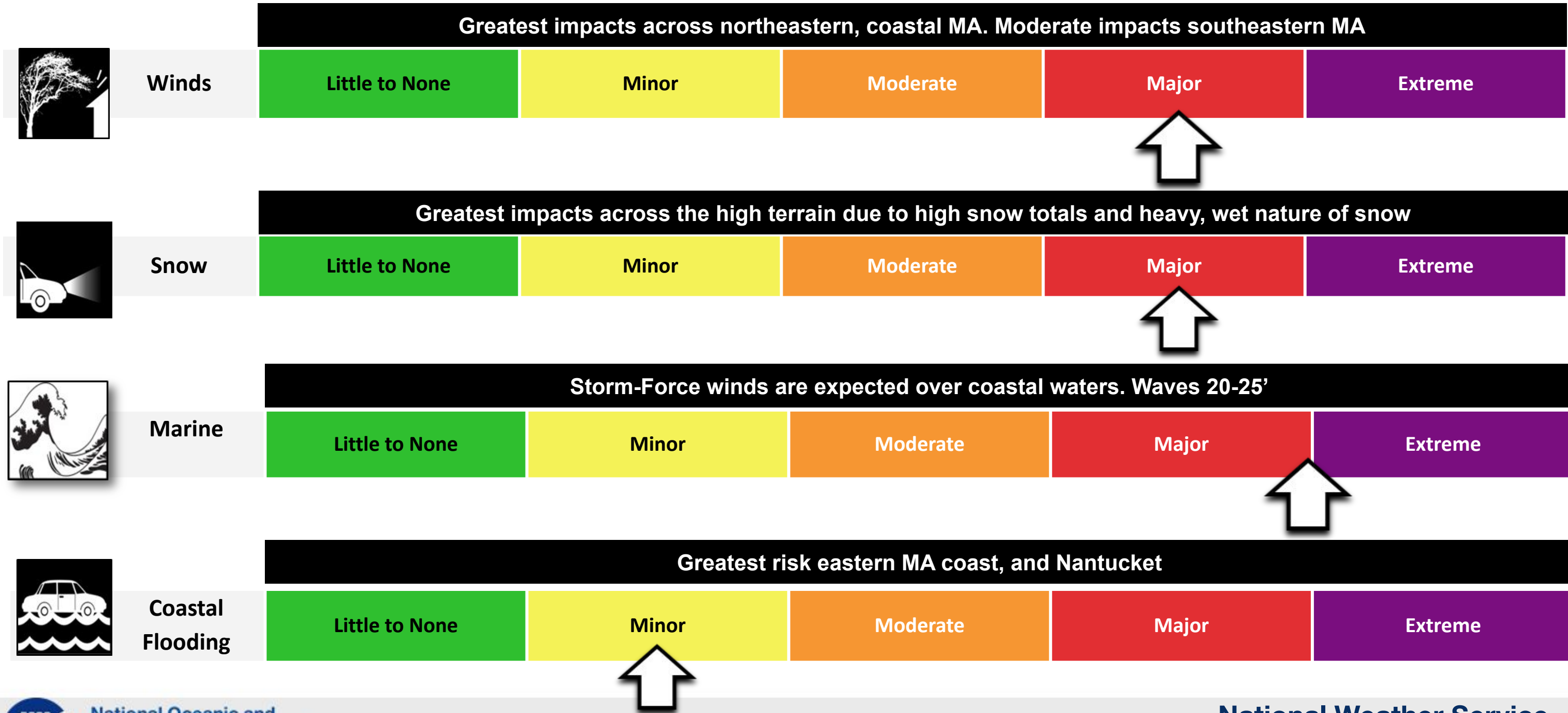
National Oceanic and
Atmospheric Administration
U.S. Department of Commerce

National Weather Service
Boston / Norton, MA



Summary of Greatest Impacts

March 14, 2023
3:04 AM





Key Points Summarized

March 14, 2023
3:04 AM

- **Snow**

- **Snow consistency will be wet. Snow loading and power outages become a big concern in areas with more than 4" of accumulation. Strong winds will exacerbate the issues.**
- **Temperatures falling below freezing today will lead to a transition from rain to snow across the entire region.**
- **This morning's commute will be difficult in Springfield and Worcester. This evening's commute likely to be difficult across much of the region, including Boston, Hartford and Providence. Conditions should improve Wednesday morning.**

- **Wind**

- **High confidence in winds in excess of 40 mph along the eastern MA coast, with the highest gusts across NE Essex County where winds will exceed 50-60mph. Concern for downed trees/power lines and travel for high profile vehicles.**

- **Coastal Flooding**

- **Minor coastal flooding is expected along the eastern MA coast and at Nantucket. It may last several tidal cycles Tuesday and Wednesday.**





Contact and Next Briefing Information

March 14, 2023
3:04 AM

For NWS Boston/North County Warning Area

Next Briefing



By 6:00 PM Tue, 3/14/23
Method: Email

Disclaimer



Information contained in this briefing is time-sensitive
Do Not Use After: 6:00 PM Tue, 3/14/23

Contact Information

Web

→ weather.gov/box

Phone

→ (508) 622-3250

Email

→ box.operations@noaa.gov

Facebook

→ www.facebook.com/NWSBoston

Twitter

→ [@NWSBoston](https://twitter.com/NWSBoston)

