

Winter Weather Briefing

For Southern New England

April 3, 2024
5:43 AM

Decision Support Briefing #4

→ As of 5:45 AM, Wednesday April 3rd

NEW

Important Updates

- Winter Storm Watches converted to Winter Storm Warnings
- High Wind Watches converted to High Wind Warnings
- Coastal Flood Watch for both coasts

Hazards

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



Graphic Created
April 3rd, 2024
4:31 AM CDT



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

National Weather Service
Boston / Norton, MA



Active Headlines

April 3, 2024
5:43 AM

Winter Weather Hazards



Marine / Coastal Hazards

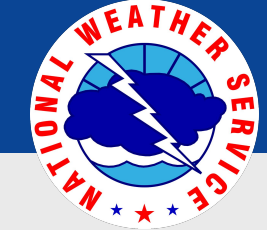


Wind Related Hazards







Flooding Hazards

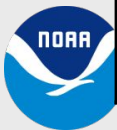




Main Points

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5:43 AM

| Hazard | Impacts | Location | Timing |
|---|--|--|--|
| Damaging Wind  | Trees and downed power lines. | The southern and eastern coastlines, the Berkshires and northern Worcester County. | Peaking Tonight into Thursday Morning. |
| Coastal Flooding  | <p>[Eastern MA Coast] Inundation on vulnerable shoreline roads; beach erosion on east-facing coasts.</p> <p>[South Coast] Some overwash to minor inundation on vulnerable shoreline roads.</p> | Southern and eastern coasts. | Early Thursday Morning around high tide. |
| Snow  | Wet snow weighing on trees and powerlines could result in damage. | The Berkshires, northern Worcester Hills and northwest Middlesex County. | Tonight through Thursday. |
| Marine  | Gale force winds with possible storm force gusts. Rough seas (wave heights 12 to 16 feet) | All MA and RI coastal waters | This morning through Thursday afternoon |





Forecast Storm Total Snowfall

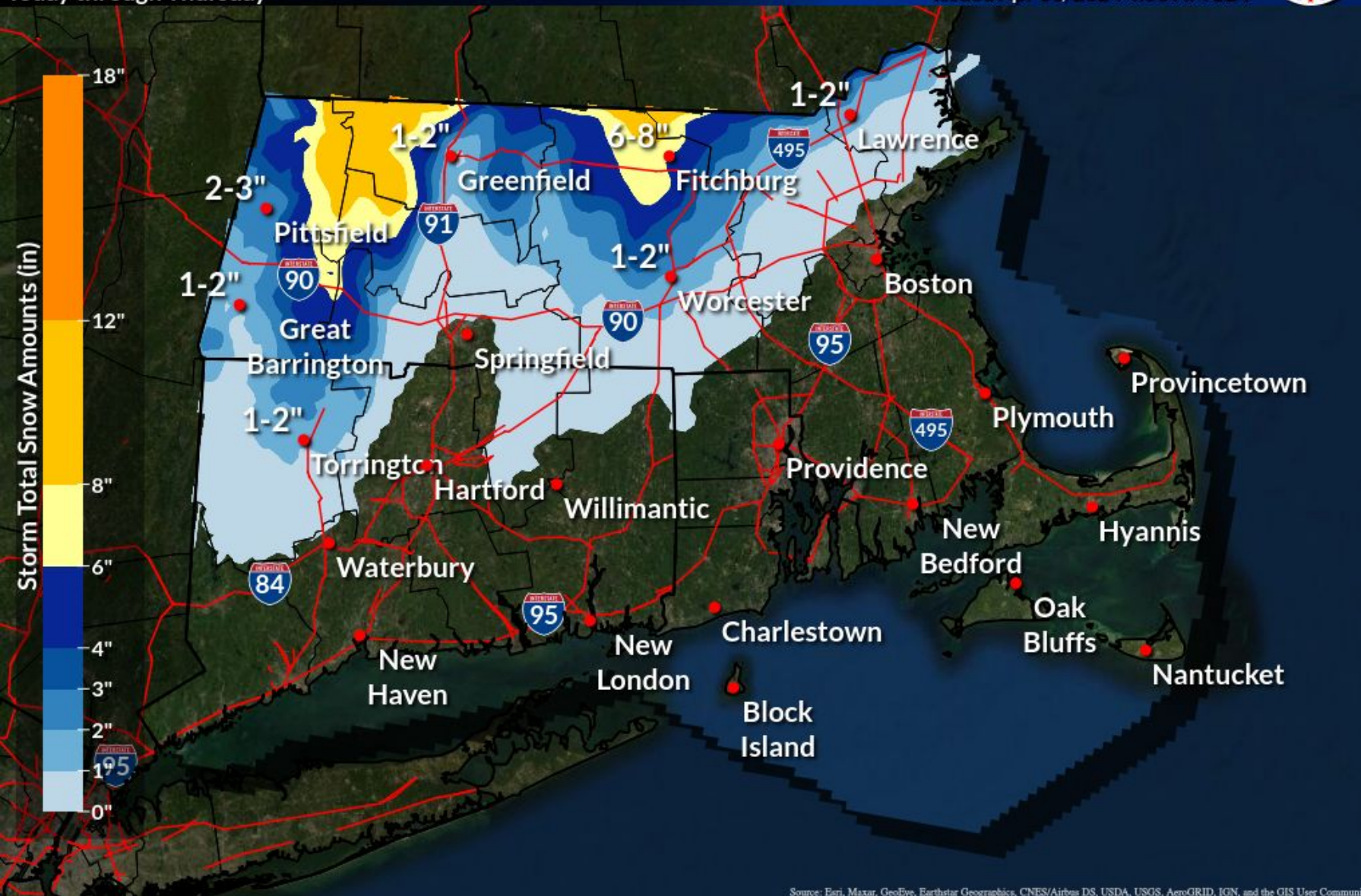
April 3, 2024
5:43 AM

Forecast Snowfall

Today through Thursday

Weather Forecast Office
Boston/Norton, MA

Issued Apr 03, 2024 4:58 AM EDT

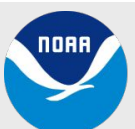


Source: Esri, Maxar, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AeroGRID, IGN, and the GIS User Community

NWS Boston/Norton

weather.gov/box

- Snowfall towards the NE MA coast remains complicated, hence greater uncertainty
- Expect to see large variations in snowfall with elevation (more snow at higher elevations)
- Snow will be wet and dense
 - Potential to cause downed limbs and power outages
- Greatest chance for accumulating snowfall is expected tonight.



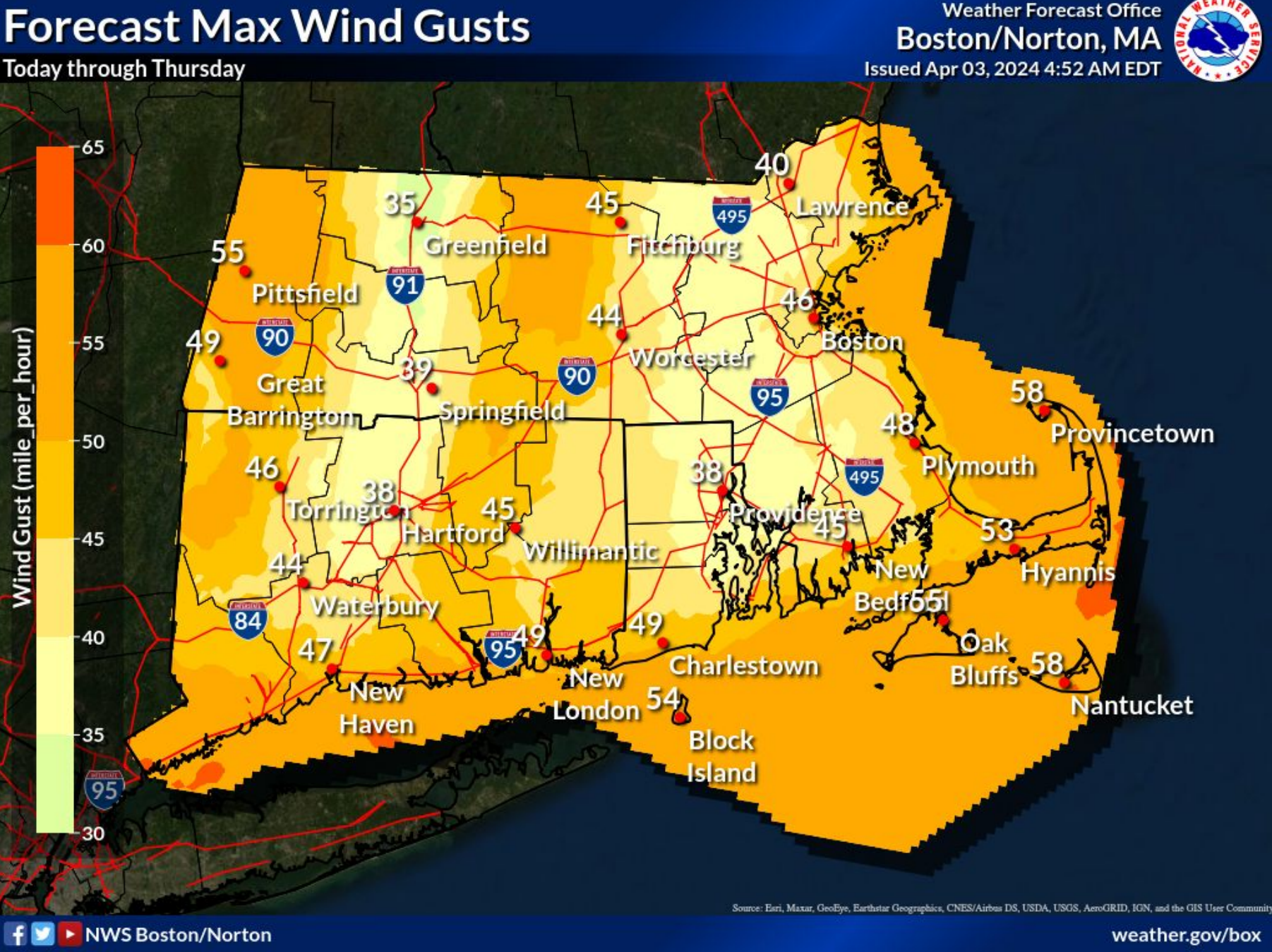
National Oceanic and
Atmospheric Administration
U.S. Department of Commerce

National Weather Service
Boston / Norton, MA



Strong Wind Gusts

April 3, 2024
5:43 AM



- Strongest winds expected to occur mid-day Wednesday through mid-day Thursday
- Potential to cause power outages, especially if wet snow accumulates on trees and power lines

| Maximum Wind Gust Forecast (mph) | | | | | | | | | | | | | | | | Maximum |
|----------------------------------|-----|-----|-----|------|-----|-----|-----|------------|-----|-----|-----|------|-----|-----|----|---------|
| 4/3 Wed | | | | | | | | 4/4 Thu | | | | | | | | |
| | | | | | | | | | | | | | | | | |
| | 3am | 6am | 9am | 12pm | 3pm | 6pm | 9pm | 12am | 3am | 6am | 9am | 12pm | 3pm | 6pm | | |
| Block Island | 30↙ | 35↗ | 37↗ | 43↗ | 49↗ | 56↗ | 58↗ | 54↗ | 43↗ | 30↙ | 28↙ | 29↙ | 30↙ | 28↙ | 58 | |
| Boston | 17↙ | 26↗ | 29↗ | 31↗ | 33↗ | 38↗ | 41↗ | 41↗ | 46↗ | 45↗ | 40↗ | 37↗ | 31↙ | 29↙ | 46 | |
| Brockton | 16↙ | 24↗ | 25↗ | 29↗ | 29↗ | 33↗ | 41↗ | 40↗ | 39↗ | 39↗ | 36↗ | 30↙ | 26↙ | 25↙ | 41 | |
| Gloucester | 18↙ | 25↗ | 31↗ | 33↗ | 37↗ | 43↗ | 46↗ | 48↗ | 54↗ | 56↗ | 51↗ | 45↗ | 40↙ | 38↙ | 56 | |
| Greenfield | 16↙ | 22↗ | 21↗ | 25↗ | 24↗ | 28↗ | 33↗ | 33↗ | 37↗ | 36↗ | 33↗ | 29↙ | 21↙ | 18↙ | 37 | |
| Hartford | 20↙ | 24↗ | 24↗ | 25↗ | 26↗ | 29↗ | 32↗ | 31↗ | 32↗ | 31↗ | 28↗ | 22↙ | 20↙ | 17↙ | 32 | |
| Hyannis | 22↙ | 26↗ | 30↗ | 35↗ | 38↗ | 40↗ | 45↗ | 52↗ | 49↗ | 45↗ | 36↗ | 31↙ | 32↗ | 32↗ | 52 | |
| Lowell | 16↙ | 22↗ | 24↗ | 26↗ | 30↗ | 31↗ | 37↗ | 37↗ | 40↗ | 40↗ | 39↗ | 36↗ | 30↙ | 26↙ | 40 | |
| Nantucket | 23↙ | 29↗ | 31↗ | 38↗ | 44↗ | 48↗ | 58↗ | 59↗ | 54↗ | 40↗ | 30↙ | 32↗ | 32↗ | 32↗ | 59 | |
| New Bedford | 20↙ | 25↗ | 25↗ | 30↗ | 32↗ | 38↗ | 51↗ | 49↗ | 44↗ | 35↗ | 29↗ | 25↙ | 29↙ | 28↙ | 51 | |
| Providence | 18↙ | 22↗ | 23↗ | 28↗ | 29↗ | 32↗ | 36↗ | 35↗ | 35↗ | 35↗ | 30↗ | 26↙ | 23↙ | 22↙ | 36 | |
| Provincetown | 21↙ | 29↗ | 33↗ | 33↗ | 39↗ | 46↗ | 47↗ | 56↗ | 59↗ | 58↗ | 48↗ | 38↗ | 30↙ | 35↙ | 59 | |
| Springfield | 18↙ | 24↗ | 21↗ | 29↗ | 29↗ | 28↗ | 33↗ | 32↗ | 36↗ | 36↗ | 32↗ | 25↙ | 21↙ | 17↙ | 36 | |
| Vineyard Haven | 24↙ | 29↗ | 32↗ | 37↗ | 43↗ | 47↗ | 49↗ | 51↗ | 46↗ | 36↗ | 29↗ | 31↗ | 35↗ | 33↗ | 51 | |
| Worcester | 21↙ | 25↗ | 26↗ | 33↗ | 32↗ | 35↗ | 44↗ | 43↗ | 45↗ | 44↗ | 39↗ | 33↗ | 29↙ | 24↙ | 45 | |

10152025303540455060

Maximum Wind Gust Forecast (mph)

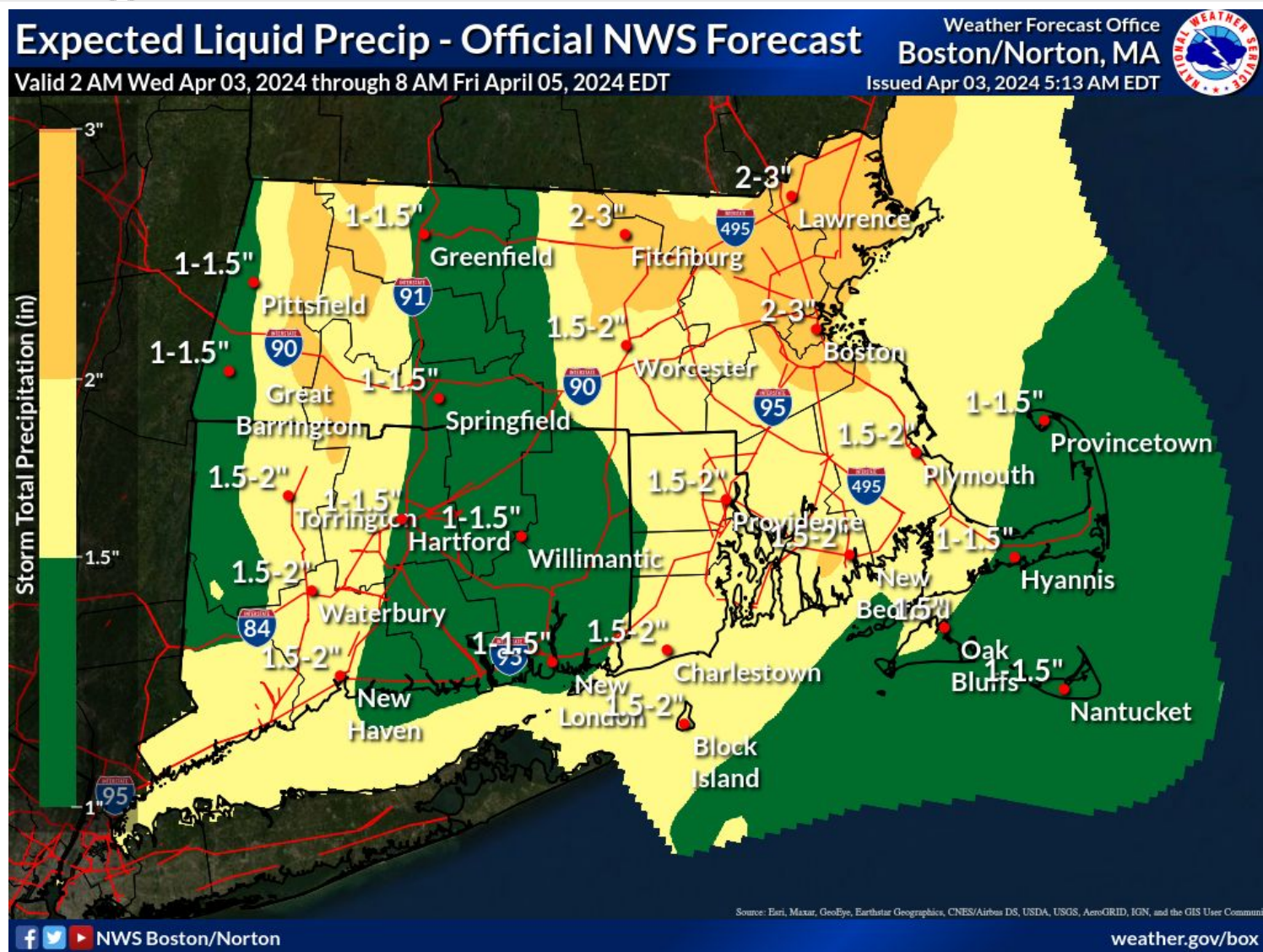
Created: 4 am EDT Wed 4/3/2024 | Values are maximums over the period beginning at the time shown.



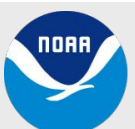
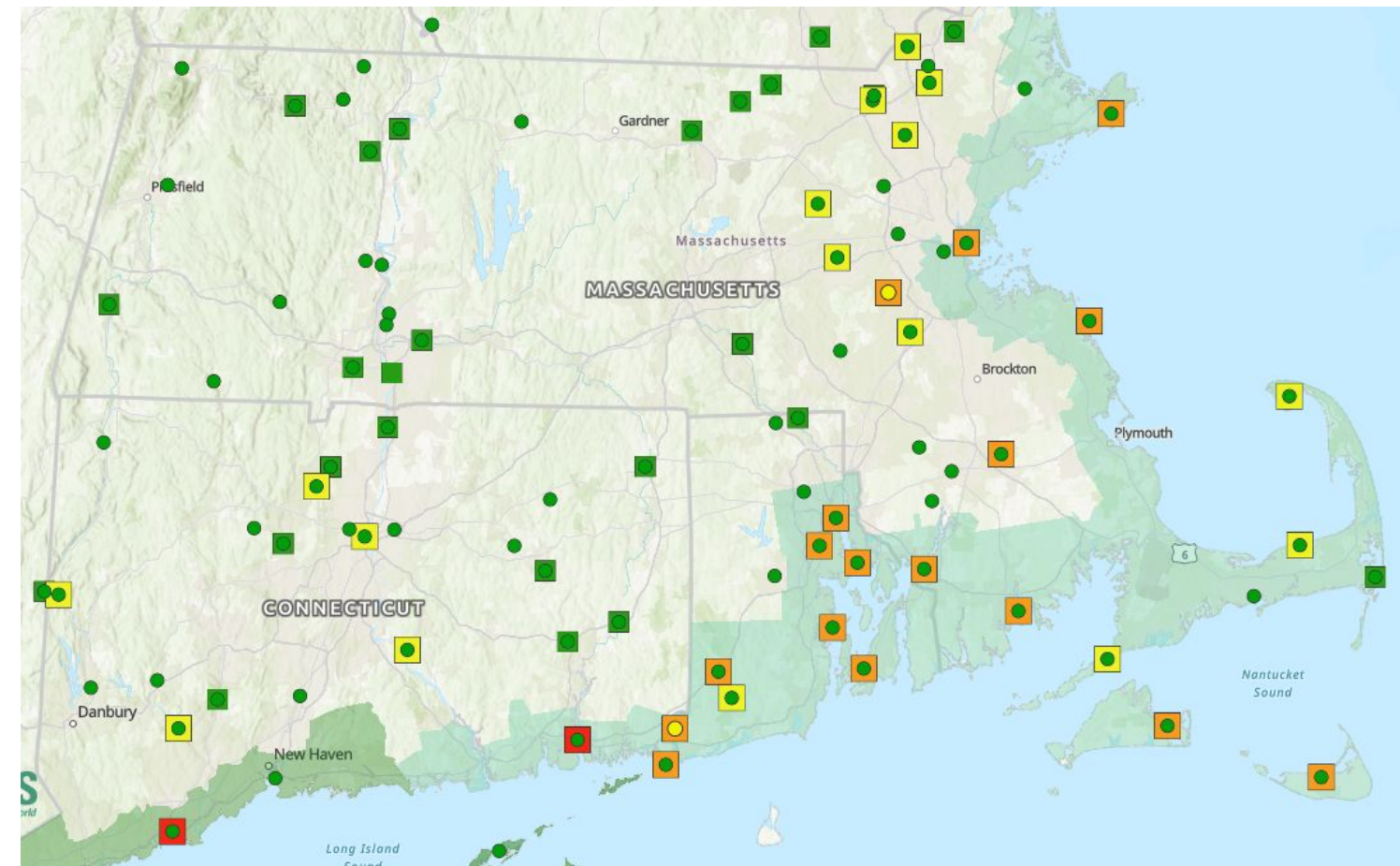


Significant Rainfall & Additional River Flooding

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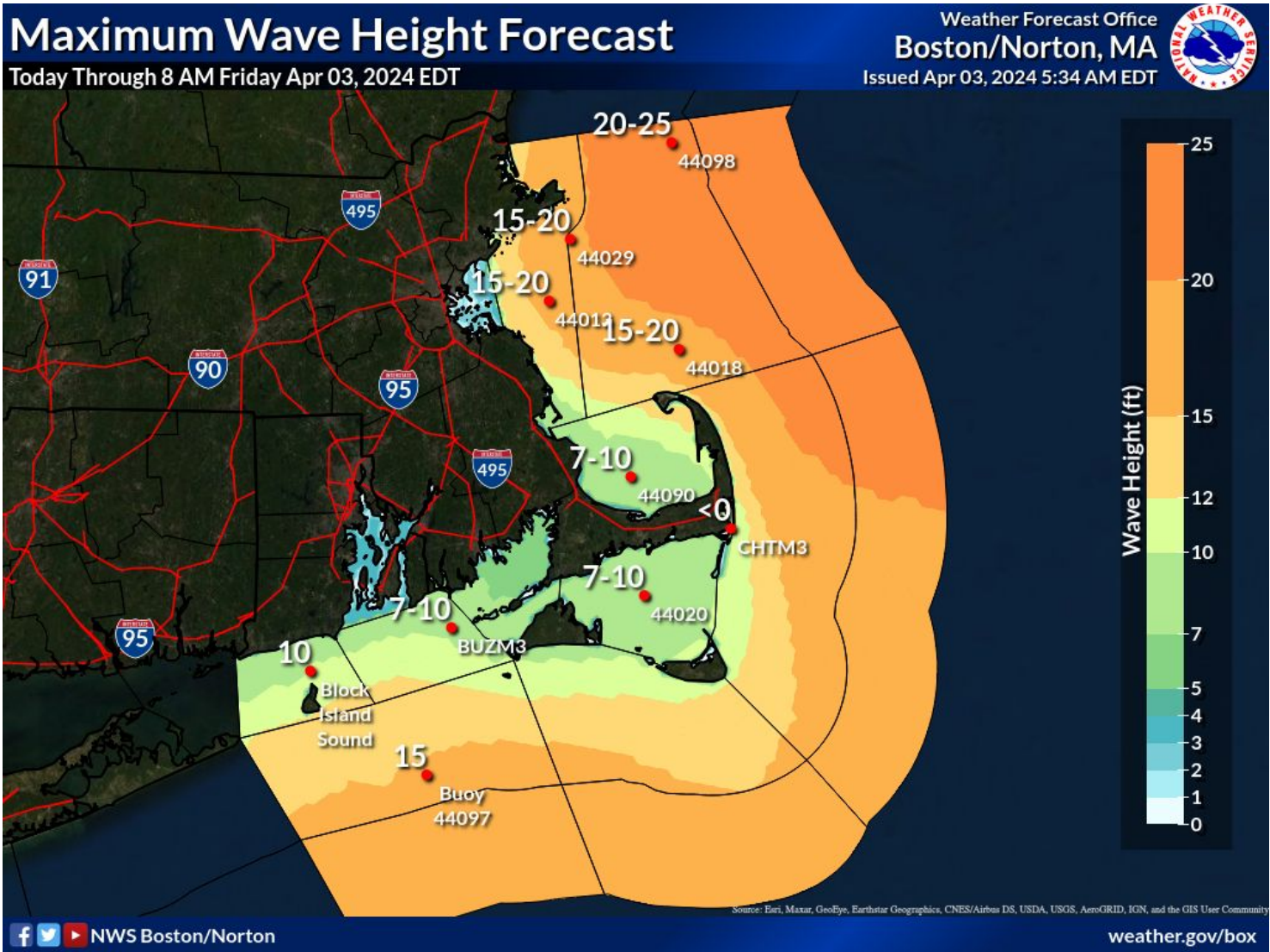
- Significant rainfall of 1.5 to 3" is expected
- Renewed rises on area rivers, leading to some minor flooding as early as Thursday (orange markers on map below)
- For River Forecasts, refer to: <https://water.noaa.gov/>



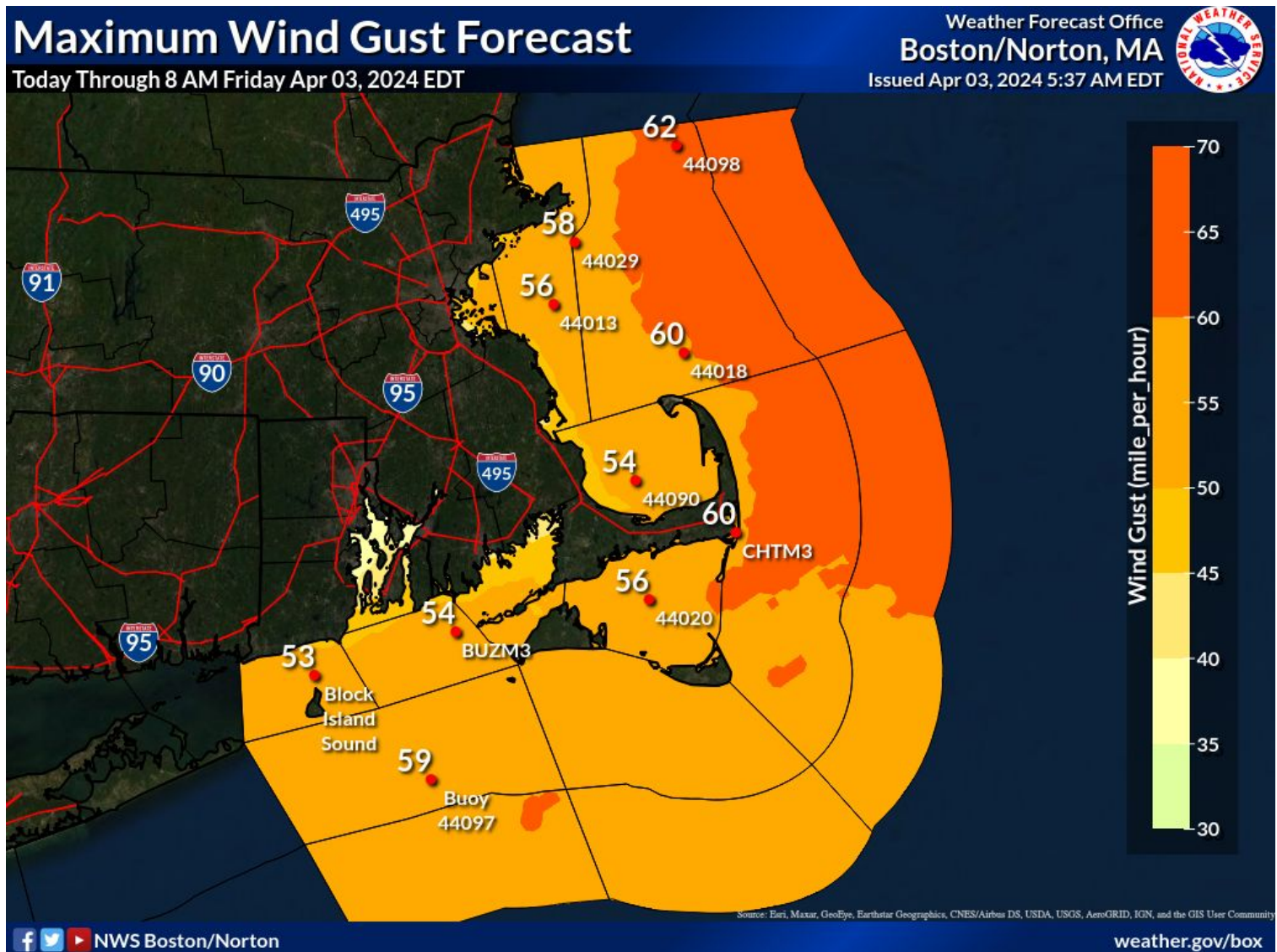


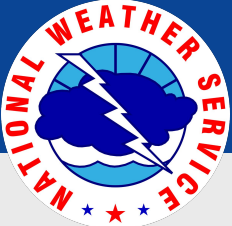
Strong Wind Gusts

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- Rough marine conditions developing Wednesday





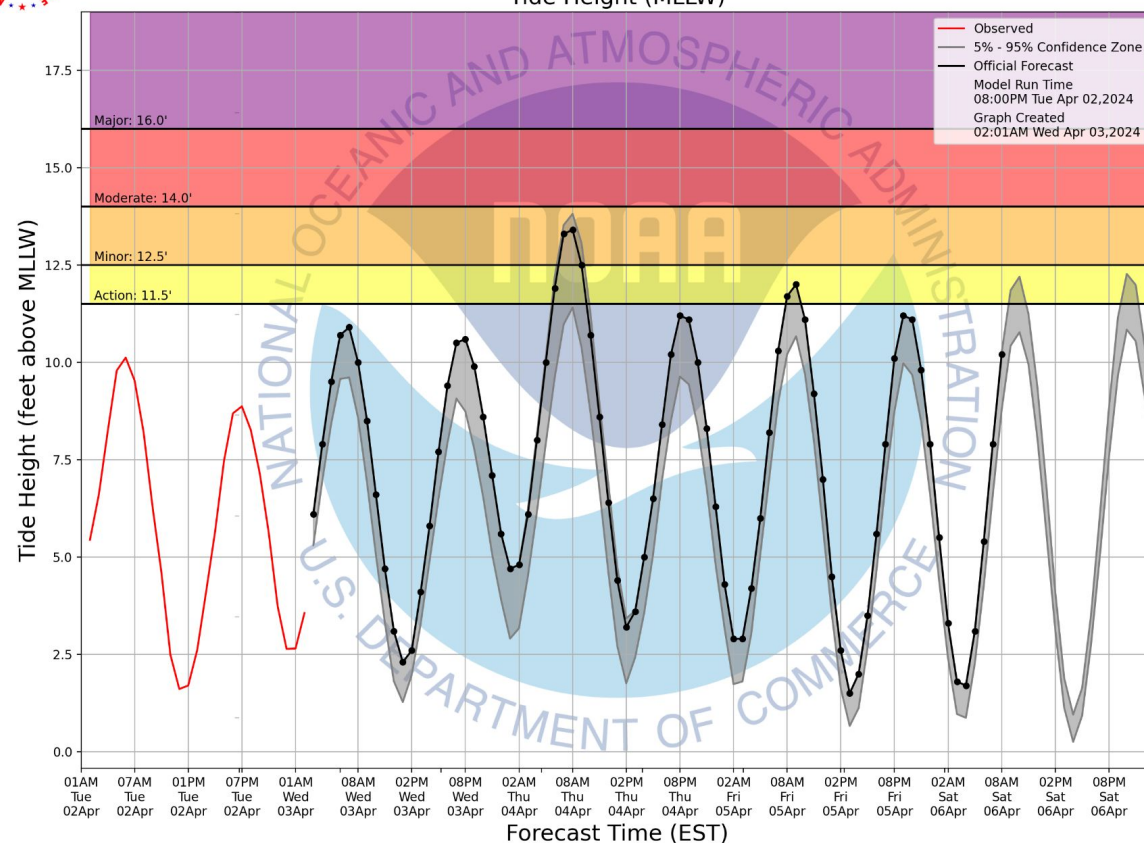
Coastal Flooding Potential

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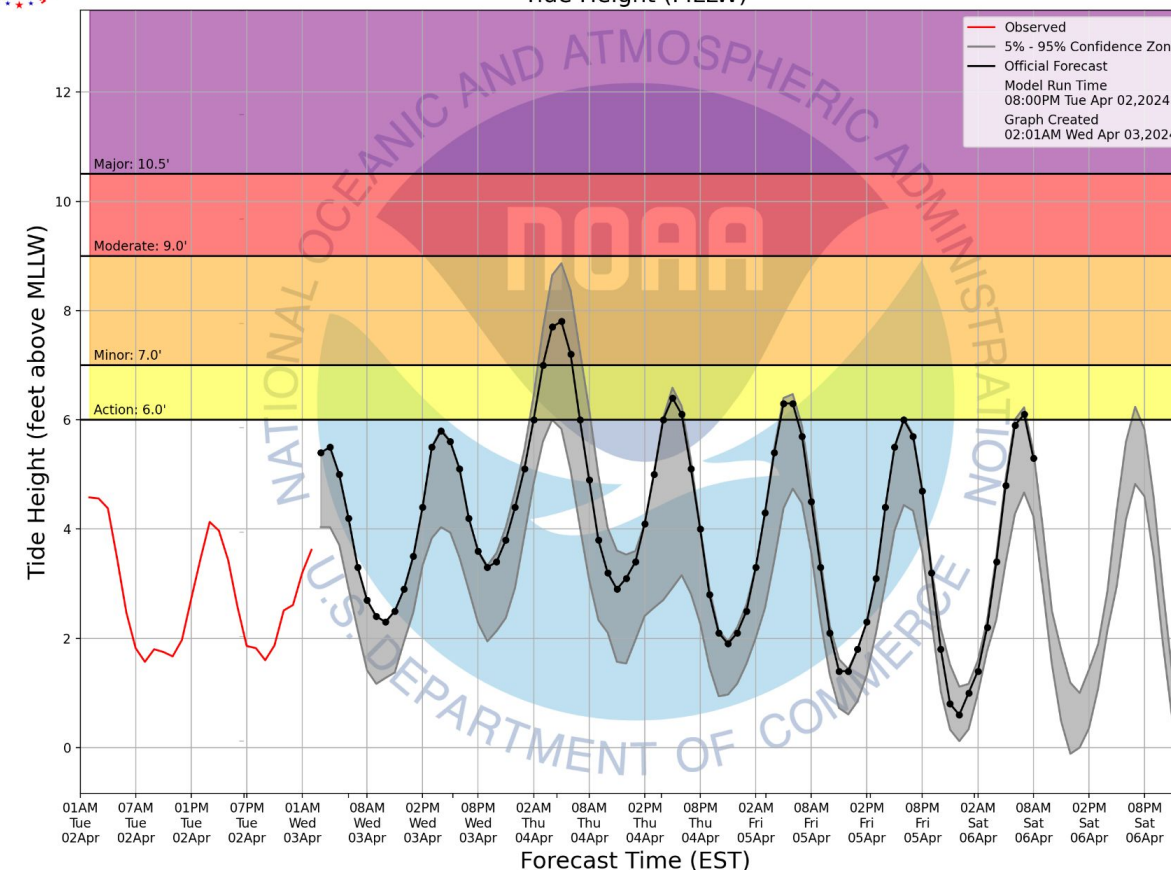
- Concern for minor to moderate coastal flooding around time of the Thursday morning high tide
- Beach erosion due to wave action along the eastern MA coastline, especially northeast MA
- Still uncertainty in the amount of storm surge and if it lines up with the time of high tide
- Refer to the [NWS Boston Coastal Flood Page](#) for latest information



Boston Harbor at Boston, MA
Tide Height (MLLW)



Narragansett Bay at Fox Point, RI
Tide Height (MLLW)





Contact and Next Briefing Information

April 3, 2024
5:43 AM

For NWS Boston/North County Warning Area



Briefing Webpage

- [Winter Weather Information](#)
- [Additional Forecast Information](#)



Next Briefing

- By 6:00 PM Wednesday April 3
- Method: Email



Disclaimer

- Information contained in this briefing is time-sensitive
- Do Not Use After: 6:00 PM Wednesday April 3



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)

