

# NWS Boston / Norton

## *Emergency Management Briefing*

*1:30 PM Tuesday Dec 20, 2022*



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





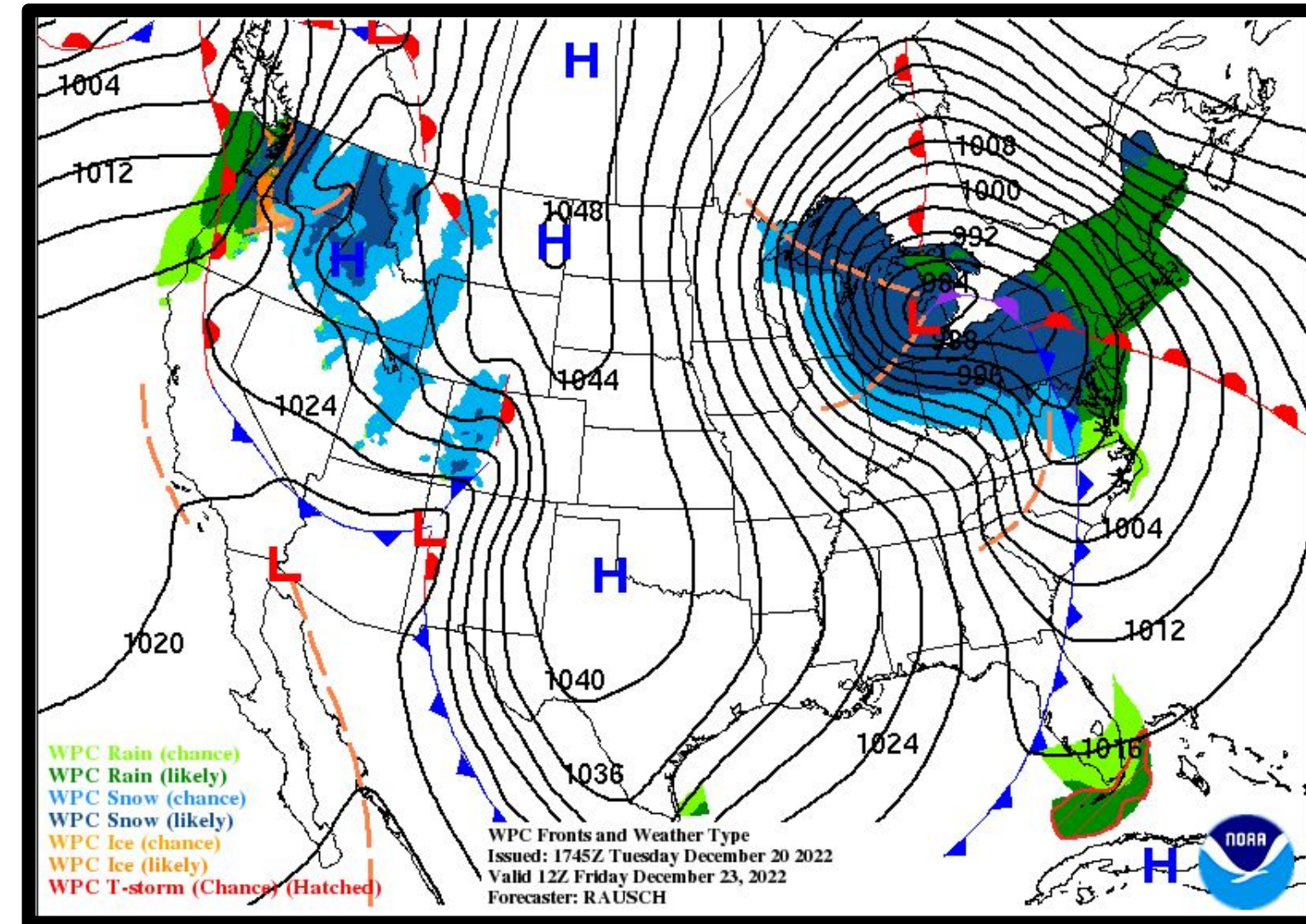
# NWS Boston Monday EM Briefing

December 20, 2022  
3:21 PM

## Key Messages

- Powerful Storm late Thursday night into early Saturday
  - Damaging winds up to 65 mph. Power outages possible.
  - Locally heavy rainfall 2+ inches
  - Minor to moderate coastal flooding Friday
  - Minor to moderate river flooding possible
- Christmas Day - quiet, but colder
- Coastal Flood Watch issued for all coasts

## 7 AM Friday Weather Map







# Coastal Flood Watch

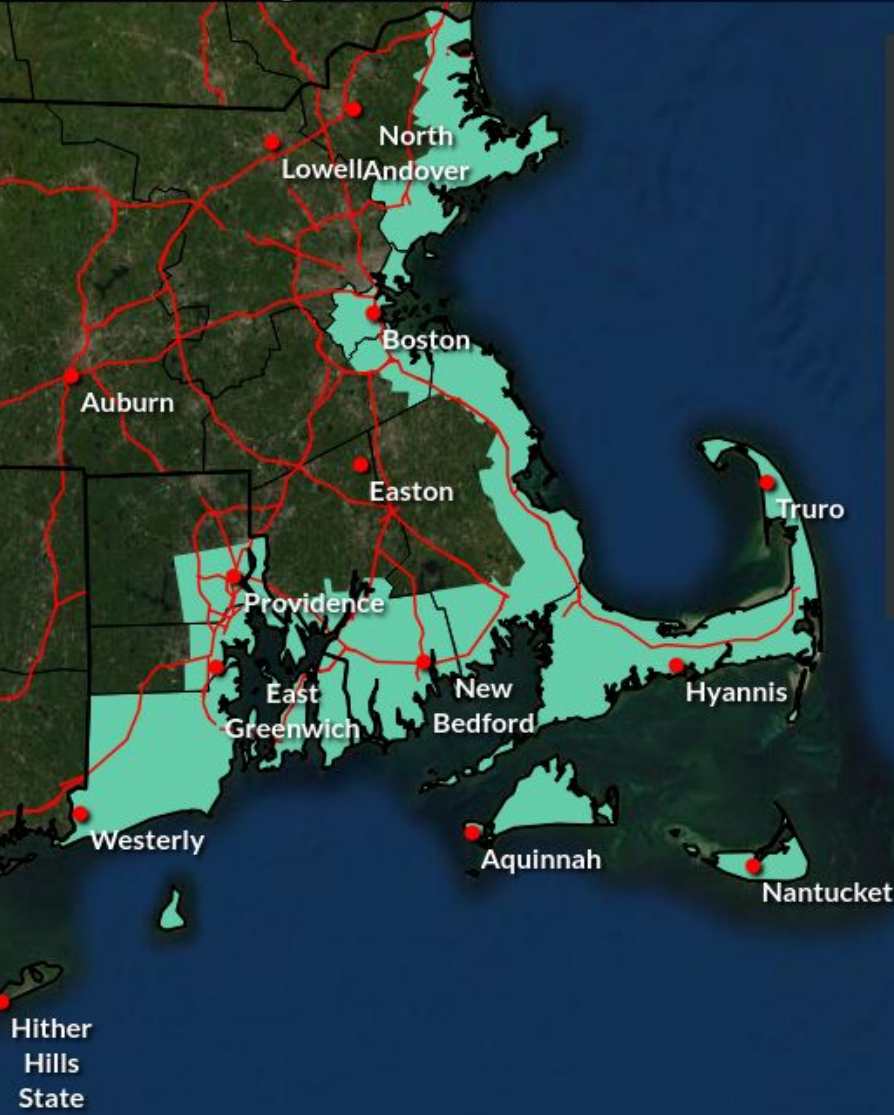
December 20, 2022  
3:21 PM

## Minor to Moderate Coastal Flooding

Do Not Drive Through Flooded Roads

Weather Forecast Office  
Boston/Norton, MA

Issued Dec 20, 2022 3:43 PM EST



### Coastal Flood Watch

*In effect Friday morning thru early afternoon*

- Minor to Moderate Coastal Flooding Possible
- One to two feet of inundation above ground level possible in low-lying areas near shorelines and tidal waterways
- coastal CT included as well

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

NWS Boston/Norton

[weather.gov/box](https://weather.gov/box)







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National Weather Service  
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# Main Points

December 20, 2022  
3:21 PM

Hazard	Impacts	Location	Timing
<b>Damaging Wind</b> 	Damaging wind gusts up to 60 mph Power outages possible	45 to 55 mph gusts possible across all of southern New England 65 mph gusts more likely along the coastal areas and high elevations	Winds expected to peak Friday afternoon  40 mph gusts may carry into early Saturday, especially over The Cape/Islands
<b>Coastal Flooding</b> 	Minor to moderate coastal flooding	South and East Coasts	Friday morning: South and East Coasts Friday evening: South Coast
<b>River Flooding</b> 	Heavy rainfall and snowmelt may support minor to moderate river flooding	Along the Connecticut River Other small stream flooding possible	Small stream flooding possible Friday Larger rivers cresting Saturday and Sunday
<b>Marine</b> 	Gale to Storm Force Winds High Seas	All of southern New England Coastal Waters	Thursday Night through Saturday







# Peak Wind Gusts Friday Afternoon

December 20, 2022  
3:21 PM

- Winds ramp up to 30 to 40 mph late Thursday into early Friday
- Winds peaking Friday afternoon and evening
- Strong gusts carry into early Saturday morning
- 65 MPH gusts are possible

Maximum Wind Gust Forecast																								
	12/22 Thu					12/23 Fri								12/24 Sat								12/25 Sun		
	9am	12pm	3pm	6pm	9pm	12am	3am	6am	9am	12pm	3pm	6pm	9pm	12am	3am	6am	9am	12pm	3pm	6pm	9pm	12am	3am	6am
Boston	9↙	13↙	14↙	18↙	25↙	30↙	47↙	53↙	54↙	58↙	59↙	53↙	47↙	41↙	36↙	31↙	29↙	28↙	23↙	22↙	18↙	20↙	18↙	18↙
Brockton	10↙	14↙	15↙	20↙	25↙	29↙	45↙	52↙	54↙	59↙	60↙	55↙	48↙	43↙	37↙	31↙	32↙	29↙	24↙	22↙	18↙	20↙	18↙	17↙
Cambridge	9↙	13↙	14↙	18↙	25↙	29↙	46↙	53↙	55↙	59↙	59↙	54↙	48↙	41↙	36↙	30↙	29↙	28↙	23↙	22↙	20↙	20↙	18↙	18↙
Hartford	9↙	14↙	16↙	22↙	31↙	36↙	47↙	48↙	49↙	51↙	52↙	48↙	41↙	32↙	31↙	30↙	28↙	26↙	23↙	18↙	17↙	18↙	17↙	16↙
Lowell	7↙	10↙	9↙	12↙	20↙	24↙	43↙	49↙	52↙	55↙	54↙	53↙	45↙	39↙	32↙	26↙	26↙	25↙	21↙	18↙	15↙	15↙	14↙	15↙
New Bedford	15↙	17↙	18↙	23↙	30↙	33↙	47↙	53↙	55↙	60↙	62↙	56↙	52↙	47↙	43↙	40↙	38↙	36↙	32↙	28↙	24↙	24↙	22↙	21↙
Providence	8↙	14↙	16↙	21↙	26↙	29↙	46↙	54↙	52↙	61↙	61↙	55↙	49↙	41↙	36↙	30↙	31↙	30↙	26↙	21↙	18↙	17↙	16↙	16↙
Quincy	9↙	14↙	15↙	21↙	29↙	31↙	45↙	52↙	54↙	58↙	58↙	52↙	47↙	41↙	37↙	32↙	32↙	29↙	24↙	22↙	20↙	21↙	20↙	18↙
Springfield	8↙	14↙	16↙	20↙	29↙	33↙	47↙	47↙	48↙	52↙	51↙	49↙	41↙	35↙	32↙	30↙	28↙	26↙	23↙	18↙	17↙	18↙	17↙	15↙
Worcester	9↙	13↙	13↙	16↙	24↙	28↙	41↙	48↙	47↙	53↙	53↙	59↙	48↙	39↙	33↙	30↙	31↙	28↙	23↙	20↙	17↙	20↙	16↙	16↙

\*Table values in mph

\*\*Created: 3 pm EST Tue 12/20/2022

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

Don't see your city? Check out [weather.gov/forecastpoints](https://weather.gov/forecastpoints)

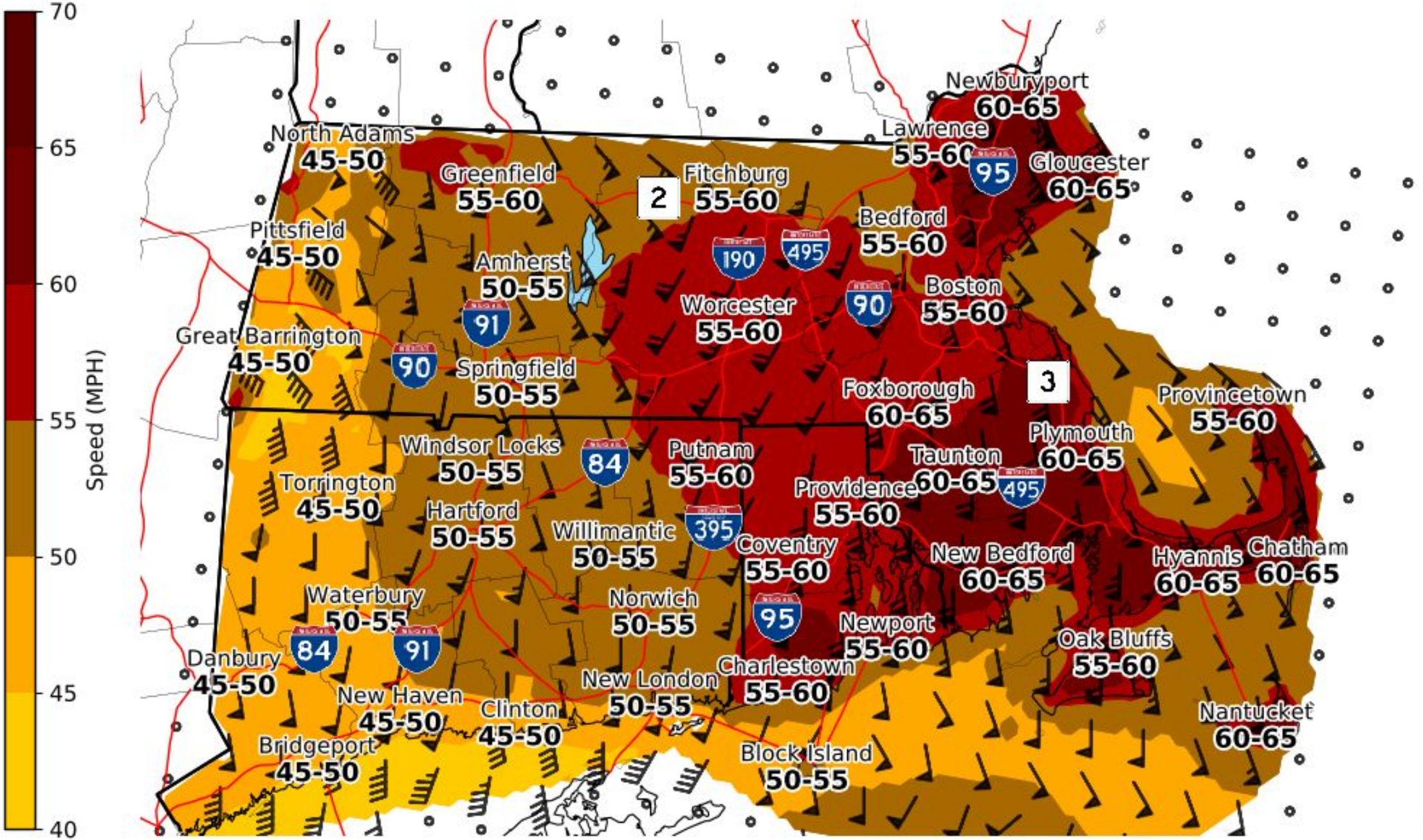






# Peak Wind Gusts Friday Afternoon

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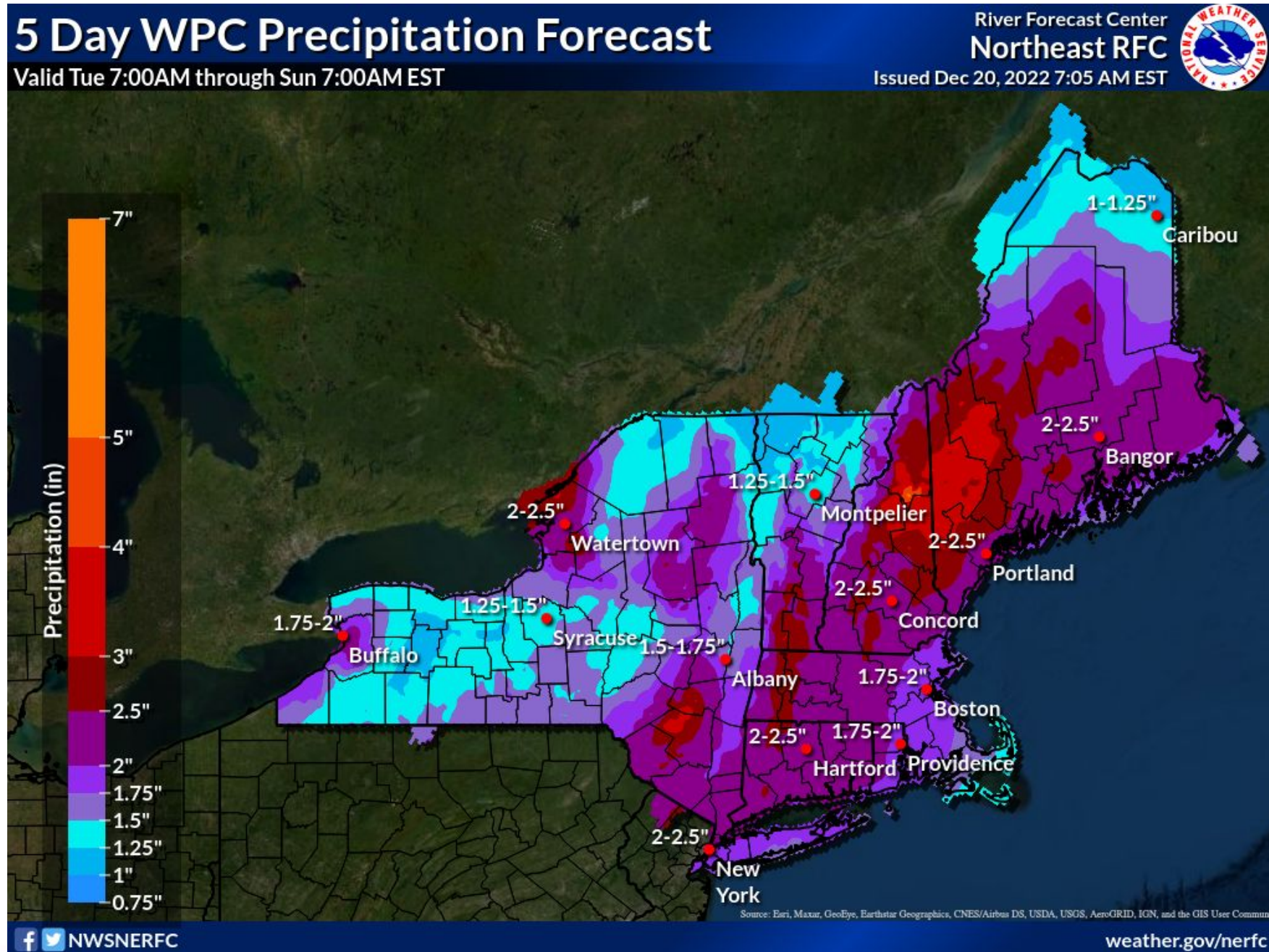






# 5 Day Precipitation Forecast

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3:21 PM



- Precipitation expected to occur between late Thursday and early Saturday
- Primarily as rain for most of southern New England
- Perhaps ending as a bit of snow in the highest terrain (Berkshires)
- Widespread 1.5 to 2 inches with locally higher amounts

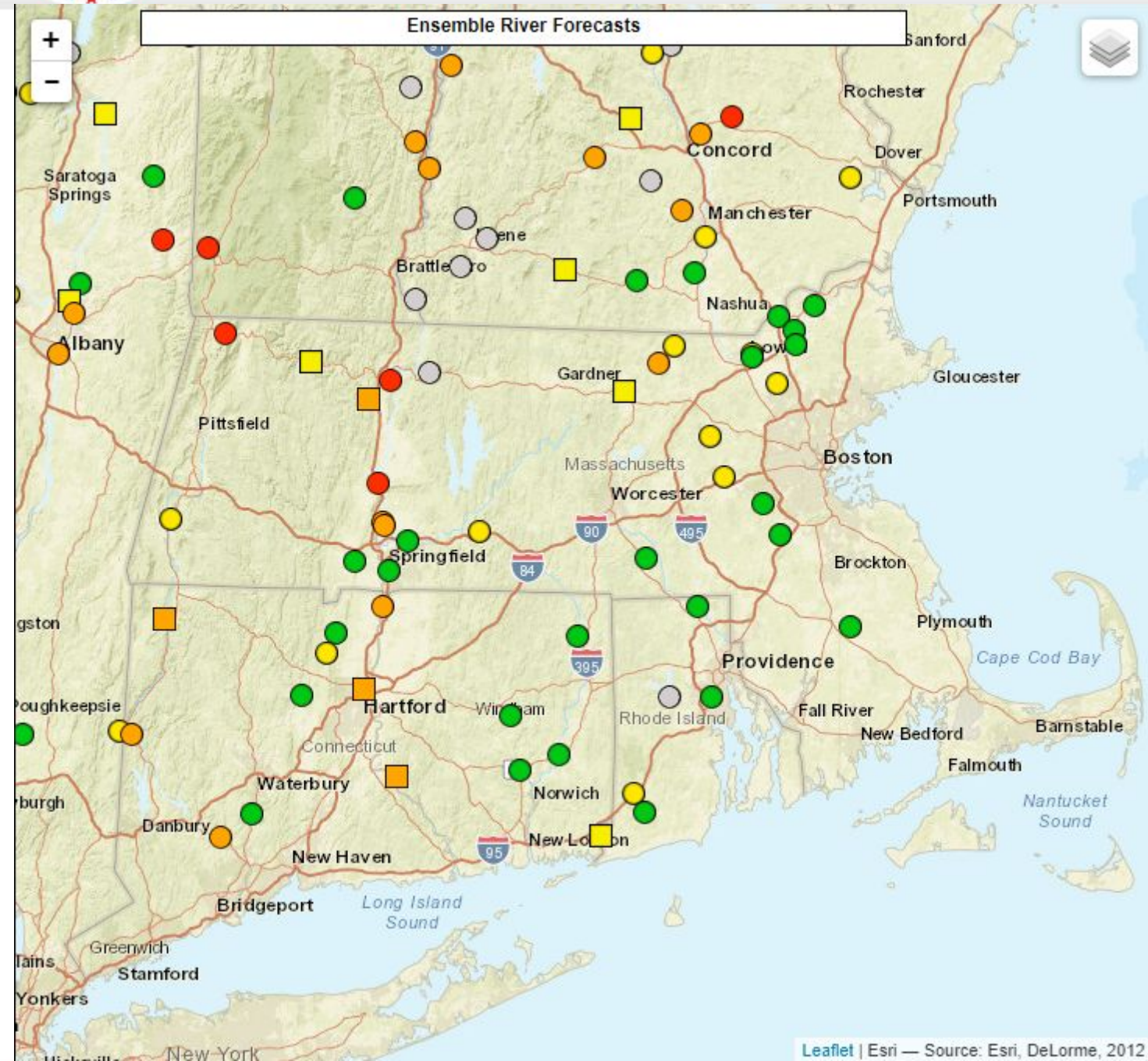






# River Levels Outlook

December 20, 2022  
3:21 PM



- Rain/Snowmelt in northern New England resulting in a potential for minor to moderate flooding along the Connecticut River (late Saturday through Monday)

30%	Level	70%
	Action	
	Minor Flood	
	Moderate Flood	
	Major Flood	
= less than 30% chance of reaching Action level		



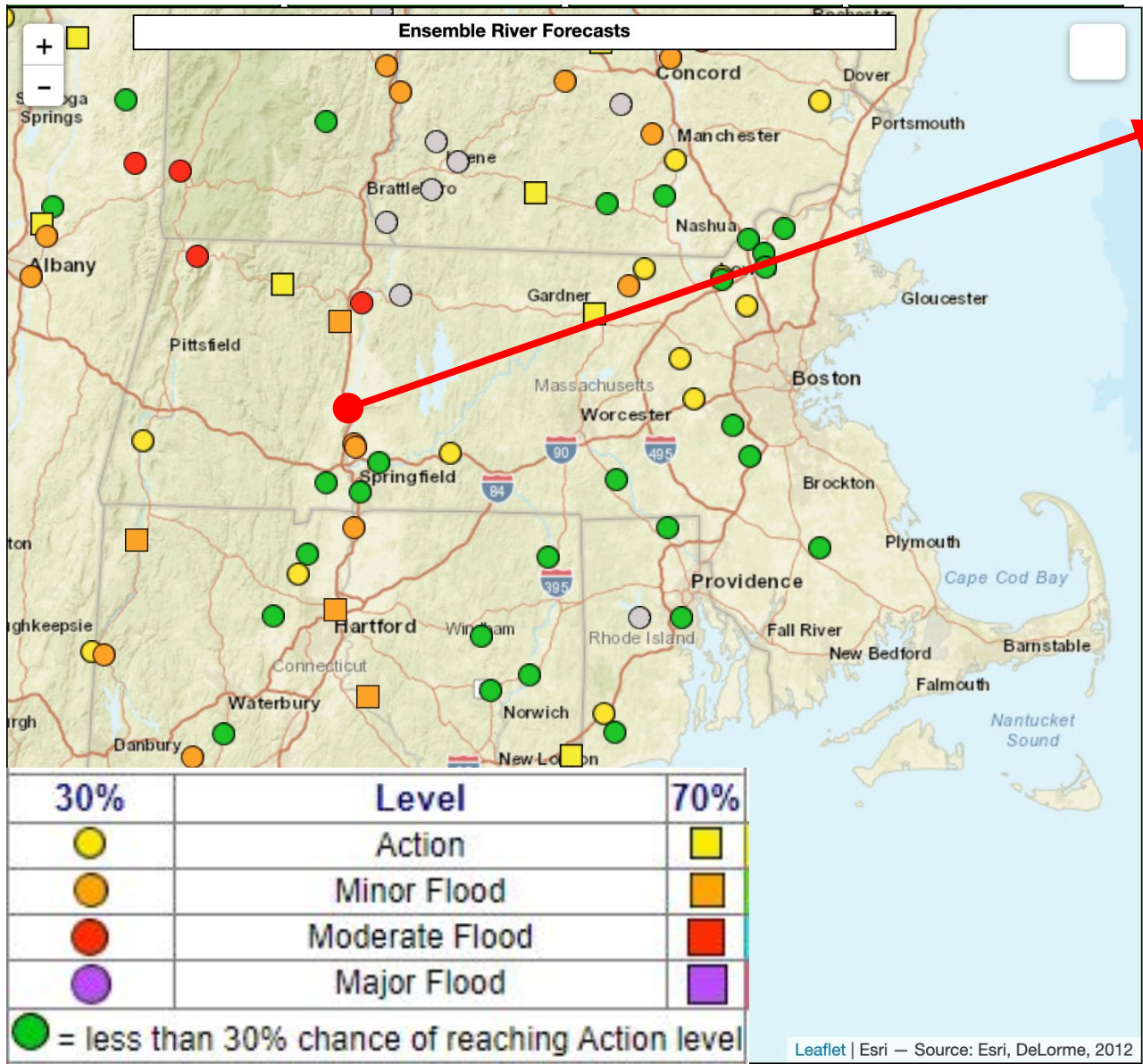




# River Levels Outlook

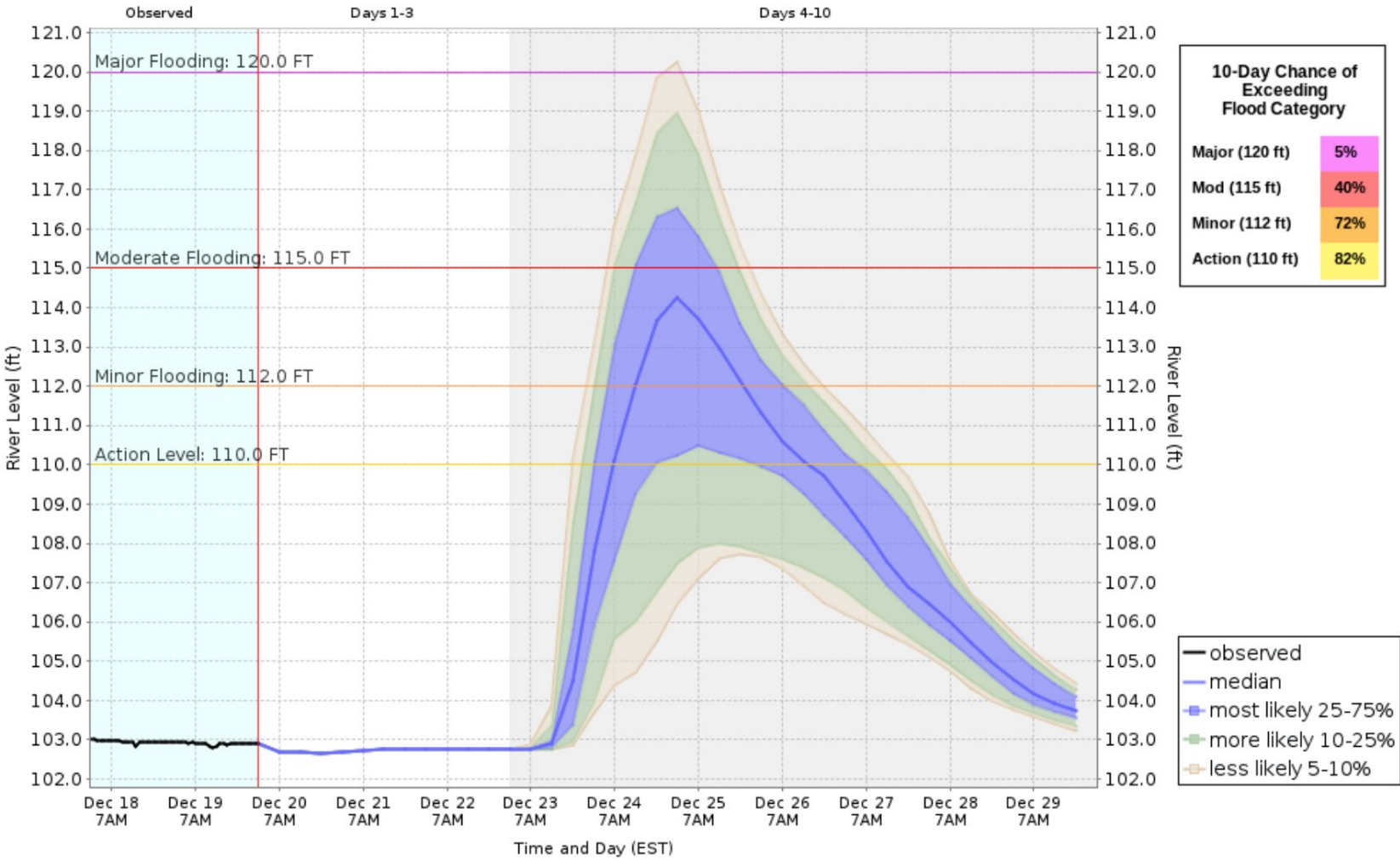
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## Connecticut River at Northampton



## Latest forecast crest is early Sunday morning

Dec 20 - Dec 30, 2022  
Connecticut River at Northampton, MA (NHMM3)



Model runtime: 01:00 AM EST Dec 20 2022  
Northeast River Forecast Center



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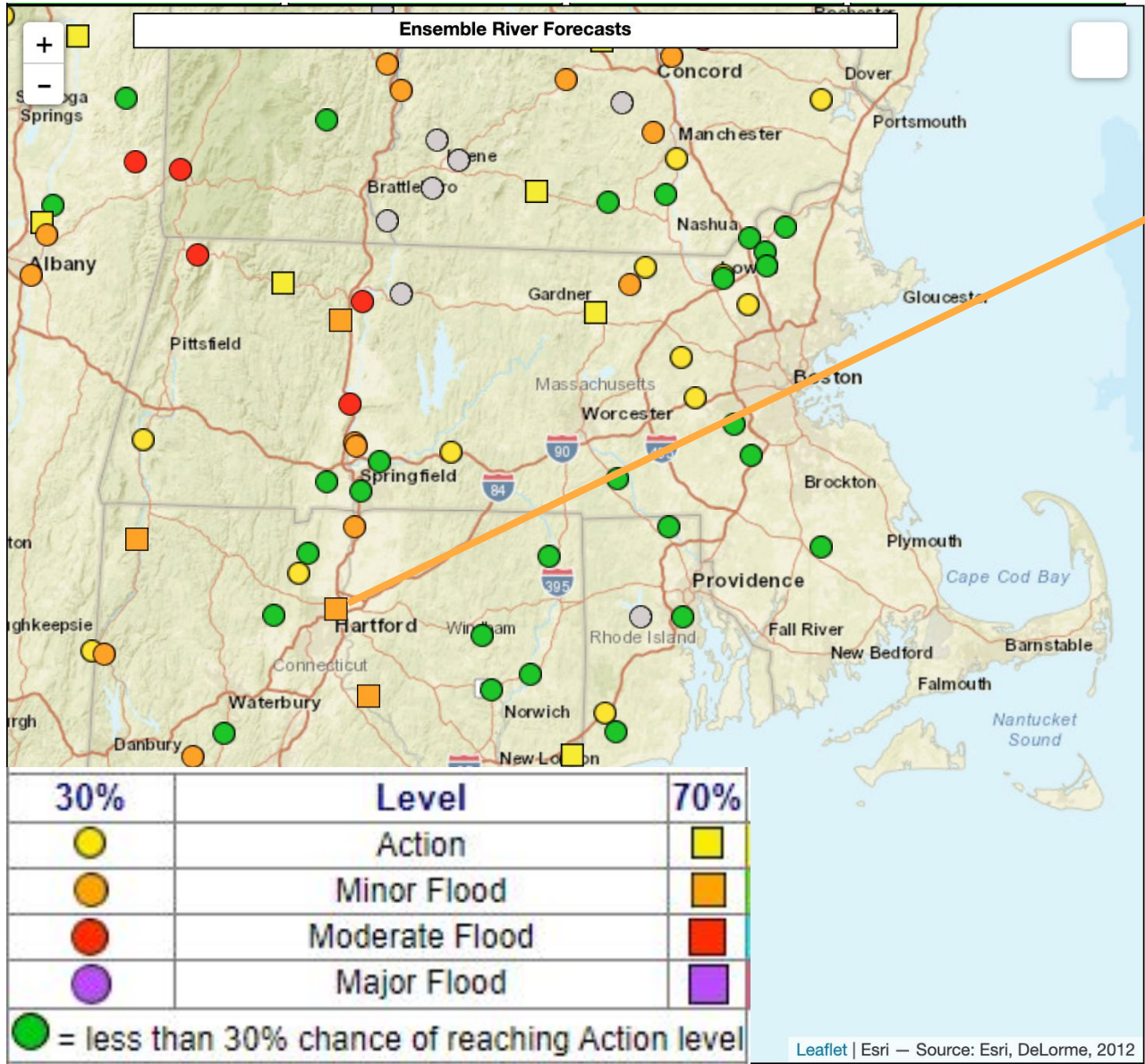




# River Levels Outlook

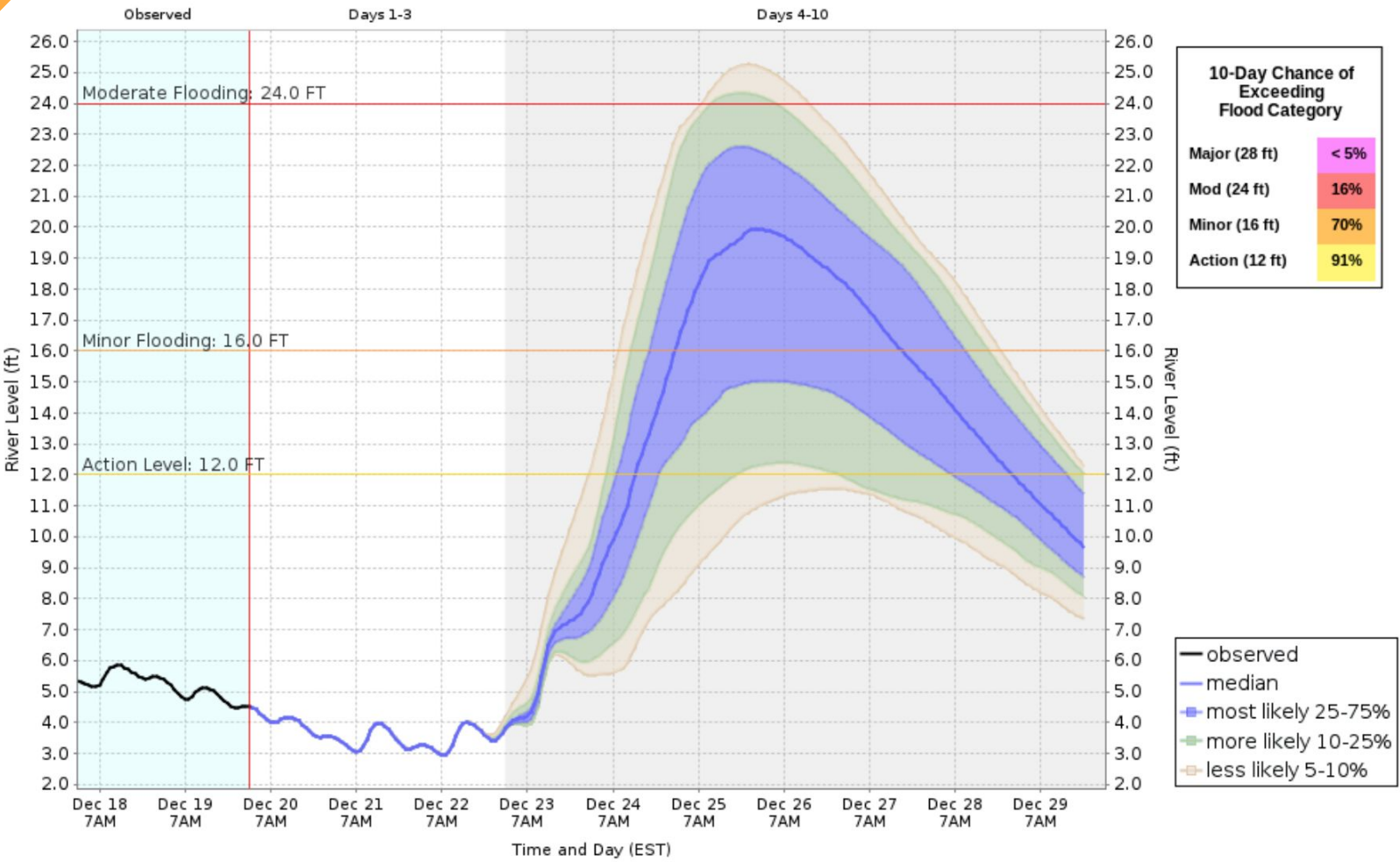
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## Connecticut River at Hartford



## Latest forecast crest is late Sunday

Dec 20 - Dec 30, 2022  
Connecticut River at Hartford, CT (HFDC3)



Model runtime: 01:00 AM EST Dec 20 2022  
Northeast River Forecast Center



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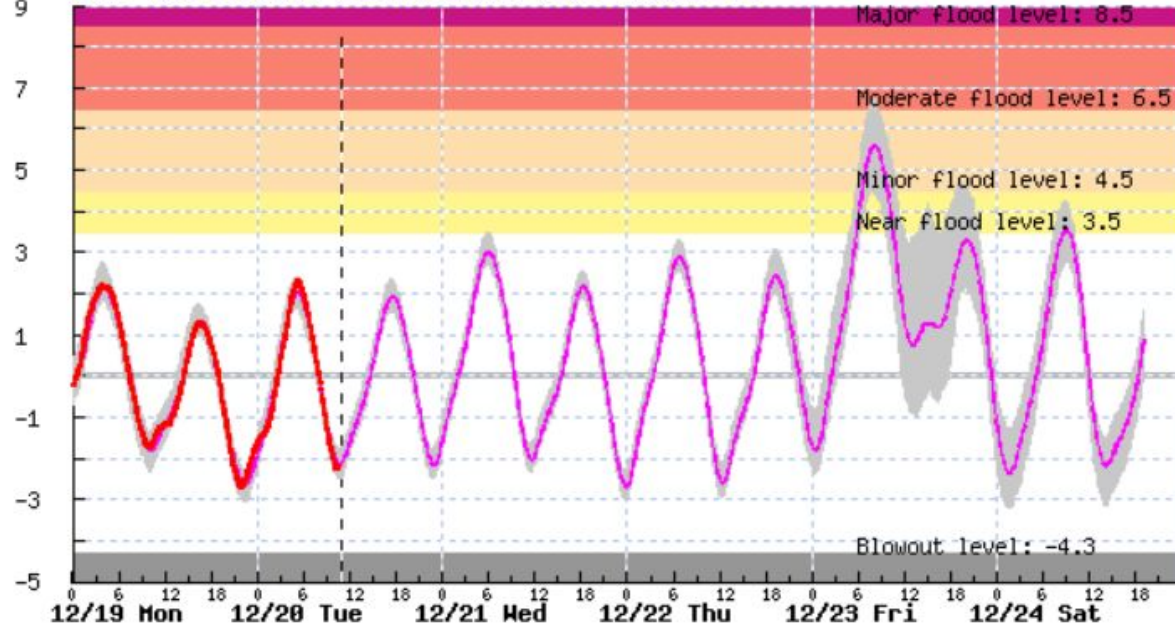


# Coastal Flooding Potential

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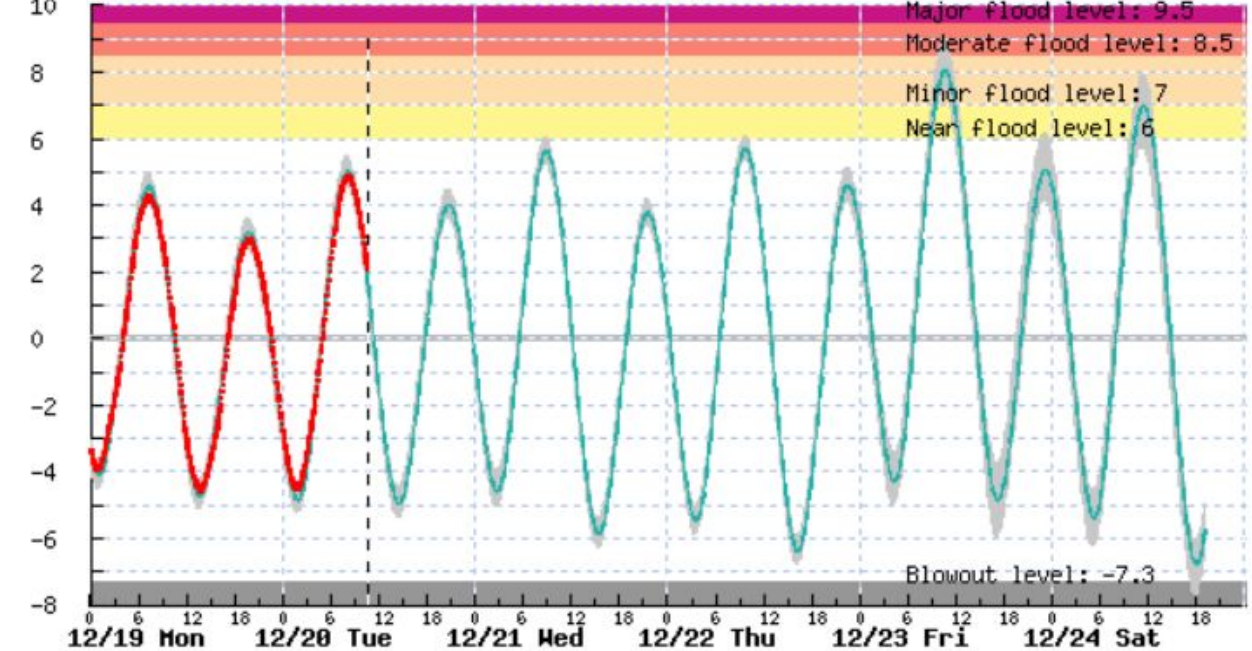
## Providence RI

Water level relative to NAVD88 Datum (ft). Times in ET.



## Boston MA

Water level relative to NAVD88 Datum (ft). Times in ET.



- Minor to moderate flooding Friday morning
- Another round of minor to moderate flooding Friday evening along south coast but more uncertainty with timing of peak surge
- Significant beach erosion along S/SE facing coastline

- Peak surge:
  - 1 to 3 feet Friday morning (both coasts)
  - 2 to 4 feet Friday evening (south coast)
    - Especially Narragansett Bay







# Coastal Flooding Definitions

December 20, 2022  
3:21 PM

## Minor Coastal Flooding

- Flooding up to 1 foot deep
- Flooding affects the most vulnerable shore roads and/or basements.
- Majority of roads remain passable with only isolated closures due to nuisance flooding.
- There is no significant threat to life and any impact on property is minimal.



## Moderate Coastal Flooding

- Flooding 1 to 3 feet deep
- Widespread flooding of vulnerable shore roads and/or basements.
- Numerous road closures are needed.
- Risk to life for those who place themselves in unnecessary danger.
- Some damage of vulnerable structures such as docks or house decks/porches near the high tide line due to waves.







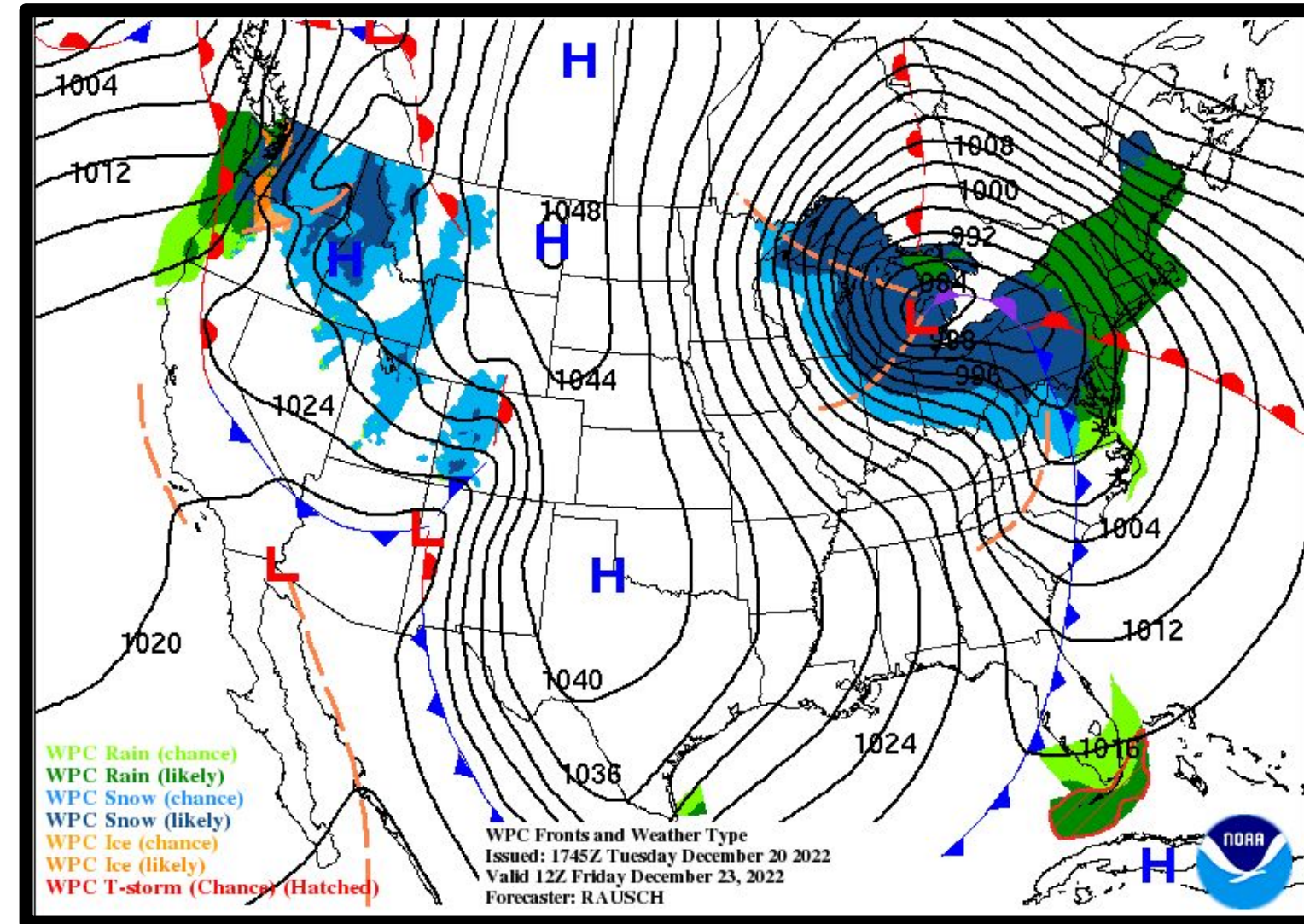
# Recap

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## 7 AM Friday Weather Map







# Contact and Next Briefing Information

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3:21 PM

For Southern New England



## Briefing Webpage

→ <https://www.weather.gov/erh/ghwo?wfo=box>



## Next Briefing

→ By Wednesday at 5 AM



## Disclaimer

Information contained in this briefing is time-sensitive

→ Do Not Use After: [06:00 AM Wednesday, 12/21/2022]



## Contact Information

### Web

→ [weather.gov/box](https://weather.gov/box)

### Phone

→ (508) 622-3250

### Email

→ [box.operations@noaa.gov](mailto:box.operations@noaa.gov)

### Facebook

→ [www.facebook.com/NWSBoston](https://www.facebook.com/NWSBoston)

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