

# NWS Boston / Norton

## *Emergency Management Briefing*

*Impactful Storm Today into Saturday*

Issued:  
4:20 AM Friday, December 23, 2022



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





# NWS Boston EM Briefing

For Southern New England

December 23, 2022  
4:20 AM

## Decision Support Briefing #5

→ As of 4:00 AM Friday, 12/23/2022

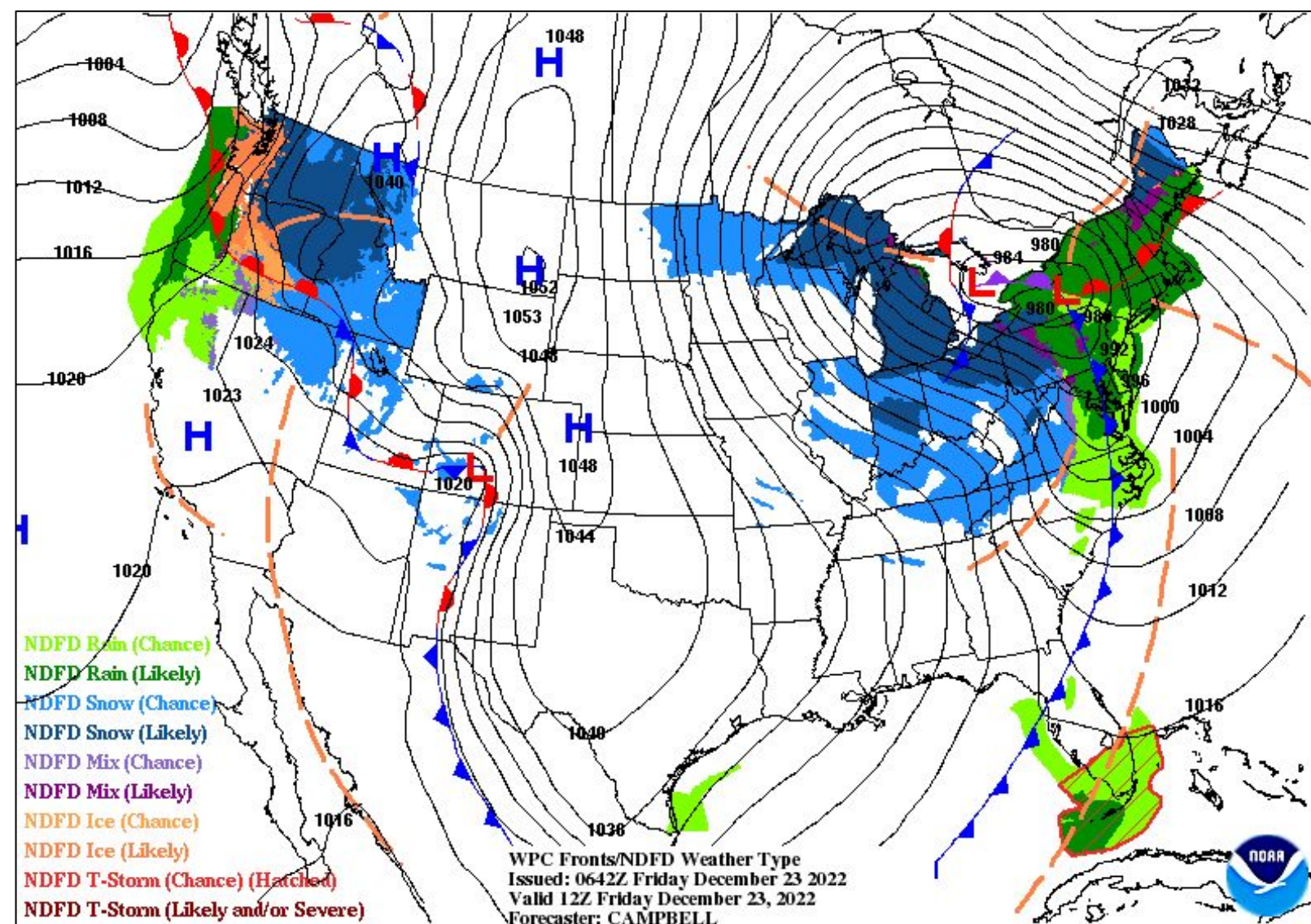
NEW

## Important Updates

- Forecast is on track
- No changes since yesterday's update

A powerful storm tracking through the Great Lakes will bring a variety of weather hazards to southern New England.

## 7 AM Friday Weather Map



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

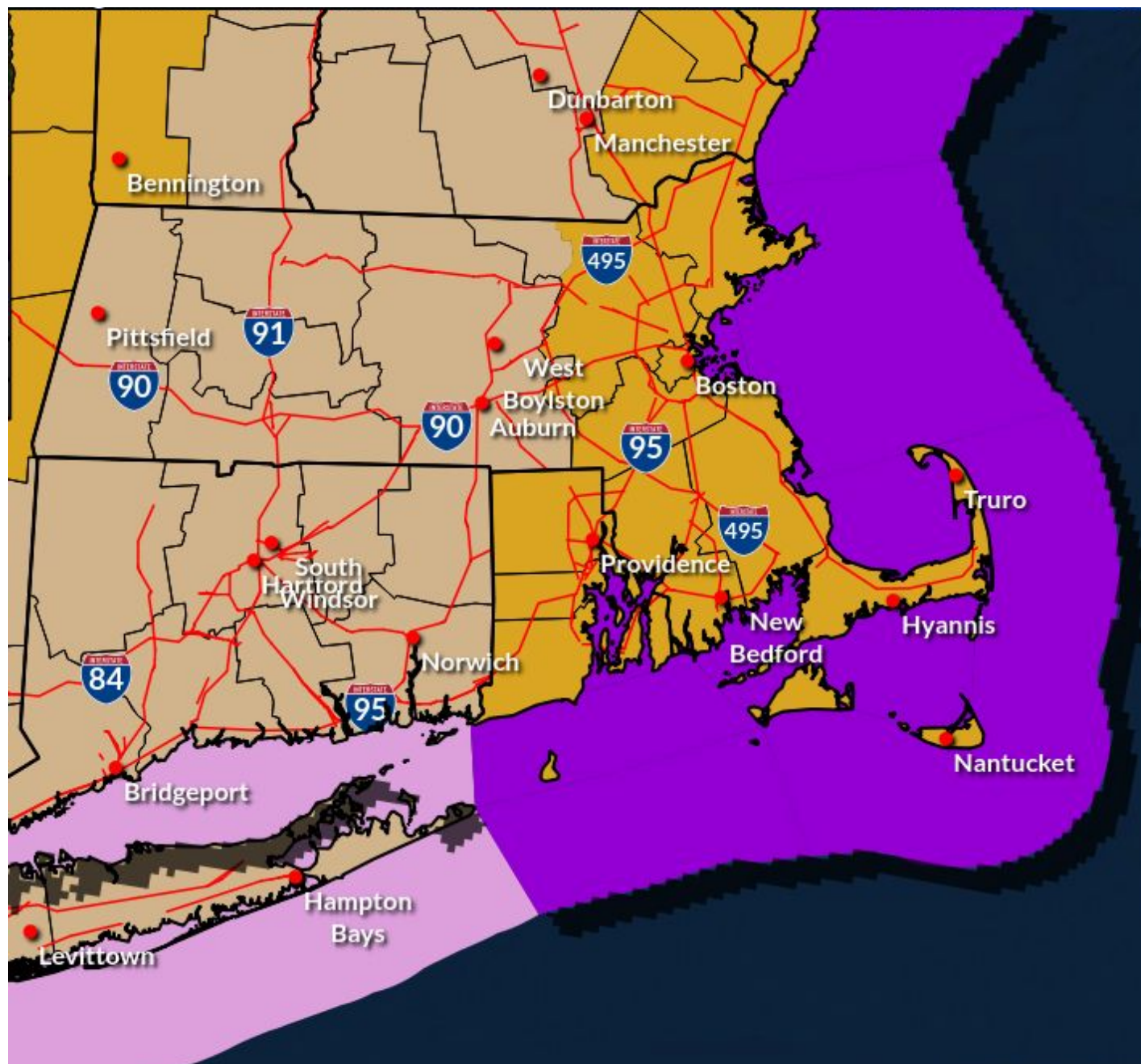
National Weather Service  
Boston / Norton, MA





# Wind and Marine Headlines

December 23, 2022  
4:20 AM



## Wind Advisory

*In effect through Fri Night*

- Wind gusts 45-55 mph
- Possible downed tree branches and power outages

## High Wind Warning

*In effect through Fri Night*

- Wind gusts 50-65 mph
- Downed trees and power lines
- Power outages possible

## Gale Warning

*In effect through Sunday morning*

- Sustained winds or frequent gusts 34-47 knots
- Rough seas

## Storm Warning

*In effect through Sunday morning*

- Sustained winds or frequent gusts 48-63 knots
- Rough seas

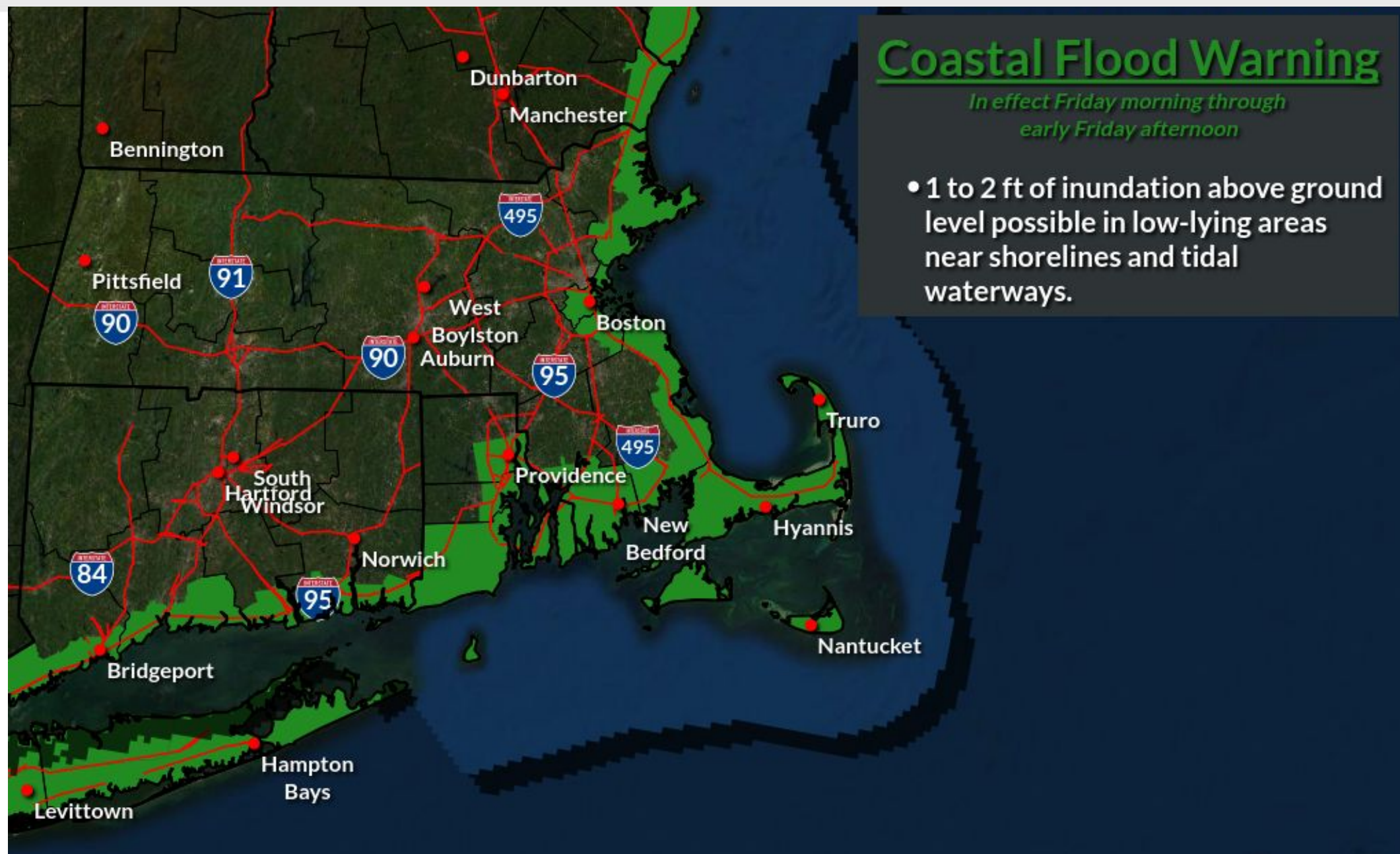






# Coastal Flood Warning

December 23, 2022  
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National Oceanic and  
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National Weather Service  
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# Main Points

December 23, 2022  
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Hazard	Impacts	Location	Timing
<b>Damaging Wind</b> 	Damaging wind gusts up to 65 mph Power outages possible	50-60 mph gusts across all of southern New England 60-65 mph gusts more likely along the coastal areas	Strongest gusts through this afternoon  40+ mph gusts into early Saturday, especially over The Cape/Islands
<b>Coastal Flooding</b> 	Minor to moderate coastal flooding	South and East Coasts	This morning
<b>River Flooding</b> 	1.0-2.5 inches of rainfall may produce minor flooding	Smaller rivers and streams Urban areas	Today
<b>Marine</b> 	Gale to Storm Force Winds High Seas	All of southern New England Coastal Waters	Today through Saturday



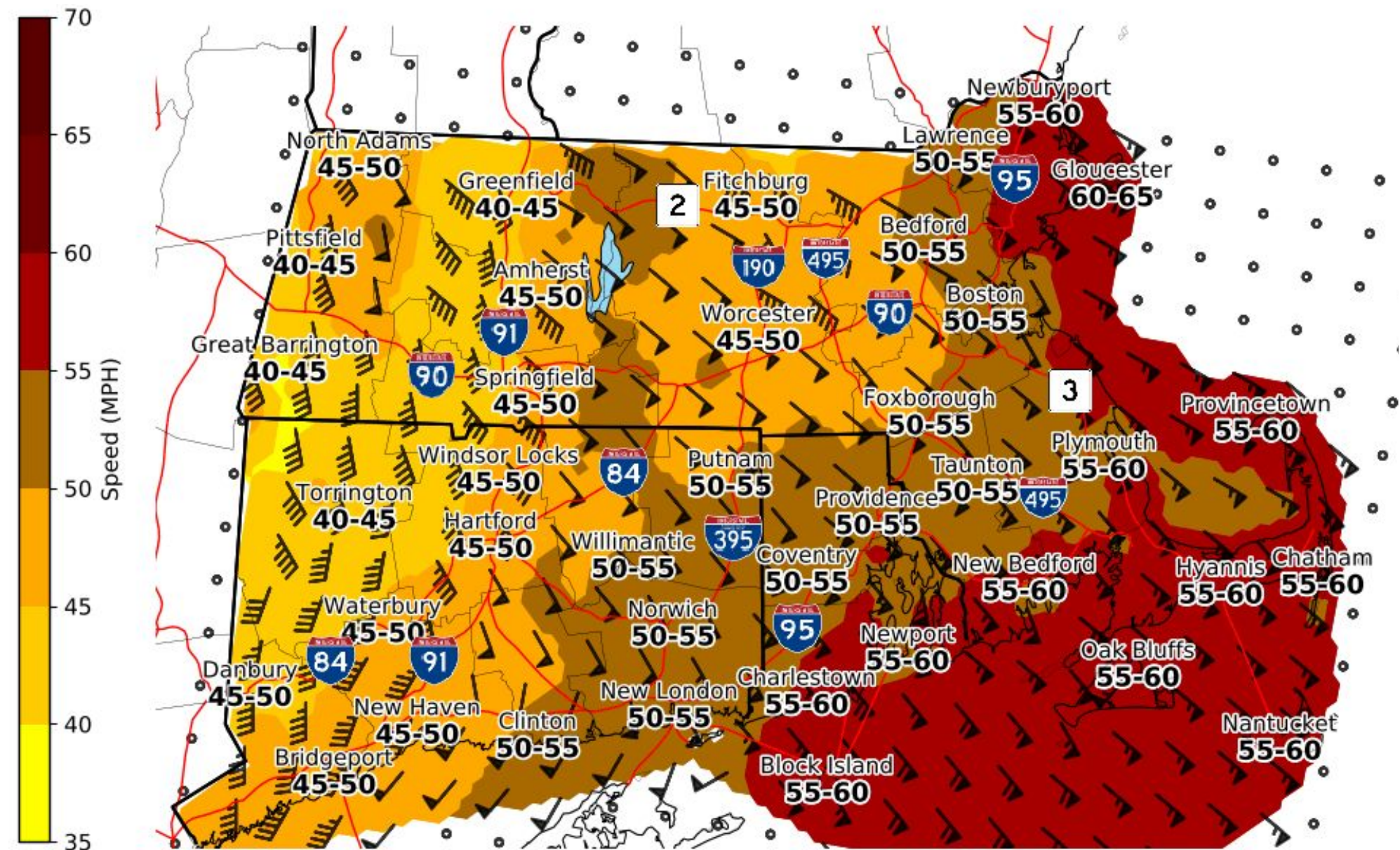




# Maximum Wind Gust Forecast

December 23, 2022  
4:20 AM

- Peak wind gusts in MPH
- Strongest winds near the coast from this morning into the afternoon.







# Wind Gust Timing

December 23, 2022  
4:20 AM

- Winds peak this morning into the afternoon - gusts up to 65 MPH possible
- Strong gusts of 35 to 45 MPH continue into early Saturday morning

Maximum Wind Gust Forecast																	
	12/23 Fri				12/24 Sat				12/25 Sun				12/26 Mon				Maximum
	12am	6am	12pm	6pm	12am	6am	12pm	6pm	12am	6am	12pm	6pm	12am	6am	12pm	6pm	
Block Island	52	58	54	52	43	39	37	36	33	32	31	29	28	26	23	20	58
Boston	51	54	51	47	35	28	26	24	23	25	24	21	20	20	18	14	54
Cambridge	49	54	51	46	33	26	26	23	22	24	23	20	20	20	18	14	54
Gloucester	56	62	54	53	39	33	30	30	30	29	28	26	25	24	22	18	62
Hartford	48	48	45	39	28	25	25	23	18	23	23	17	15	14	15	9	48
Hyannis	52	56	54	55	44	39	39	36	29	28	29	25	23	22	20	16	56
Lowell	46	51	47	43	29	25	25	21	18	23	23	17	15	20	20	10	51
Nantucket	51	55	56	59	48	43	41	39	35	33	33	29	28	26	24	20	59
New Bedford	52	55	53	49	38	33	33	30	26	26	26	22	20	18	18	14	55
Providence	44	49	47	43	31	28	26	23	21	22	23	16	15	16	17	10	49
Springfield	47	49	45	38	29	25	25	23	20	22	23	18	17	16	17	10	49
Vineyard Haven	51	56	54	54	45	39	37	36	30	30	30	26	24	23	21	17	56
Worcester	41	48	46	41	31	28	26	23	21	22	23	18	17	18	20	12	48

\*Table values in mph

\*\*Created: 1 am EST Fri 12/23/2022

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

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

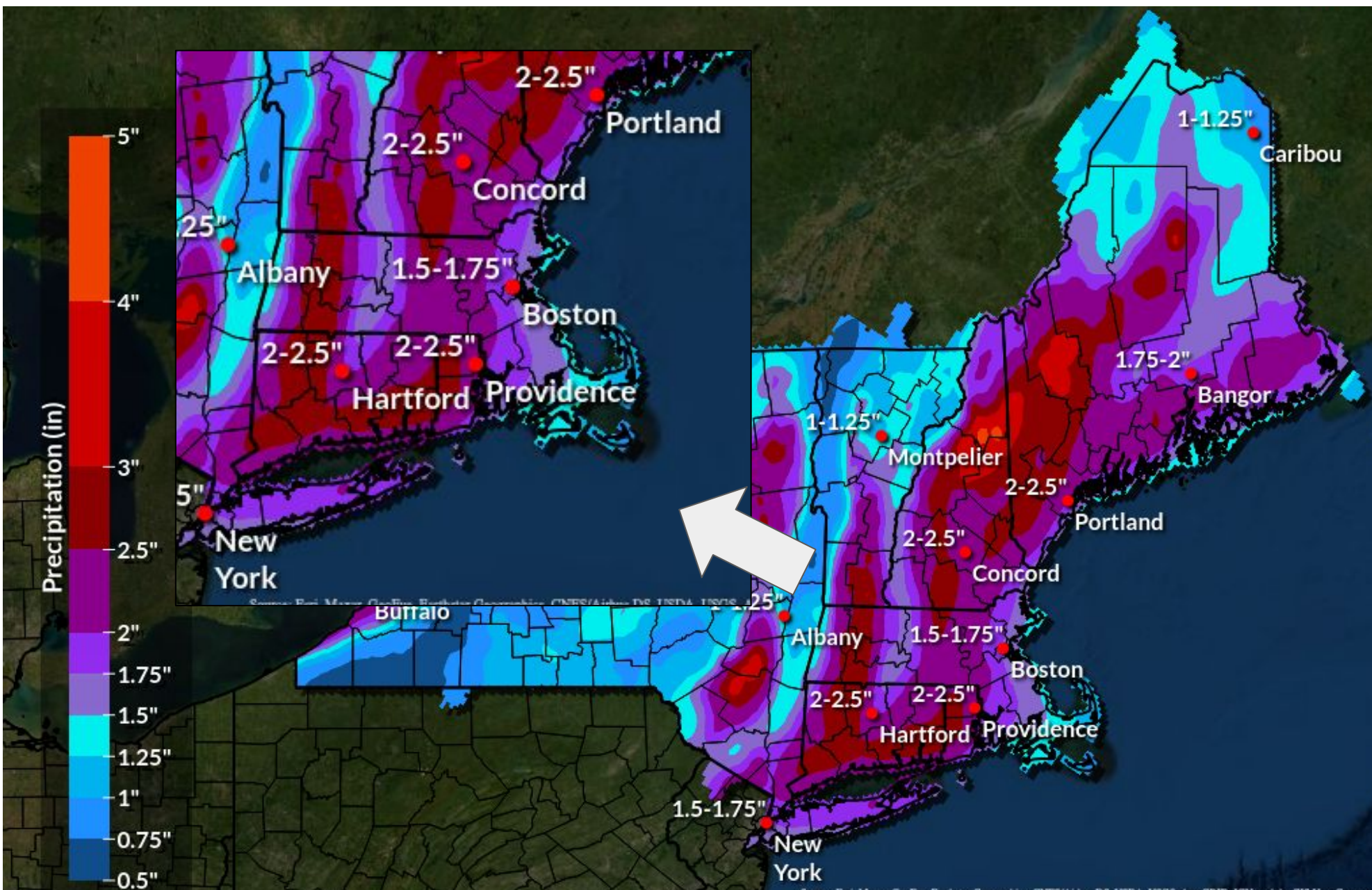






# Precipitation Forecast

December 23, 2022  
4:20 AM



- Primarily rain for most of southern New England
- Ending as a little snow this afternoon but little if any accumulation
- Widespread 1.0 to 2.5 inches of precipitation

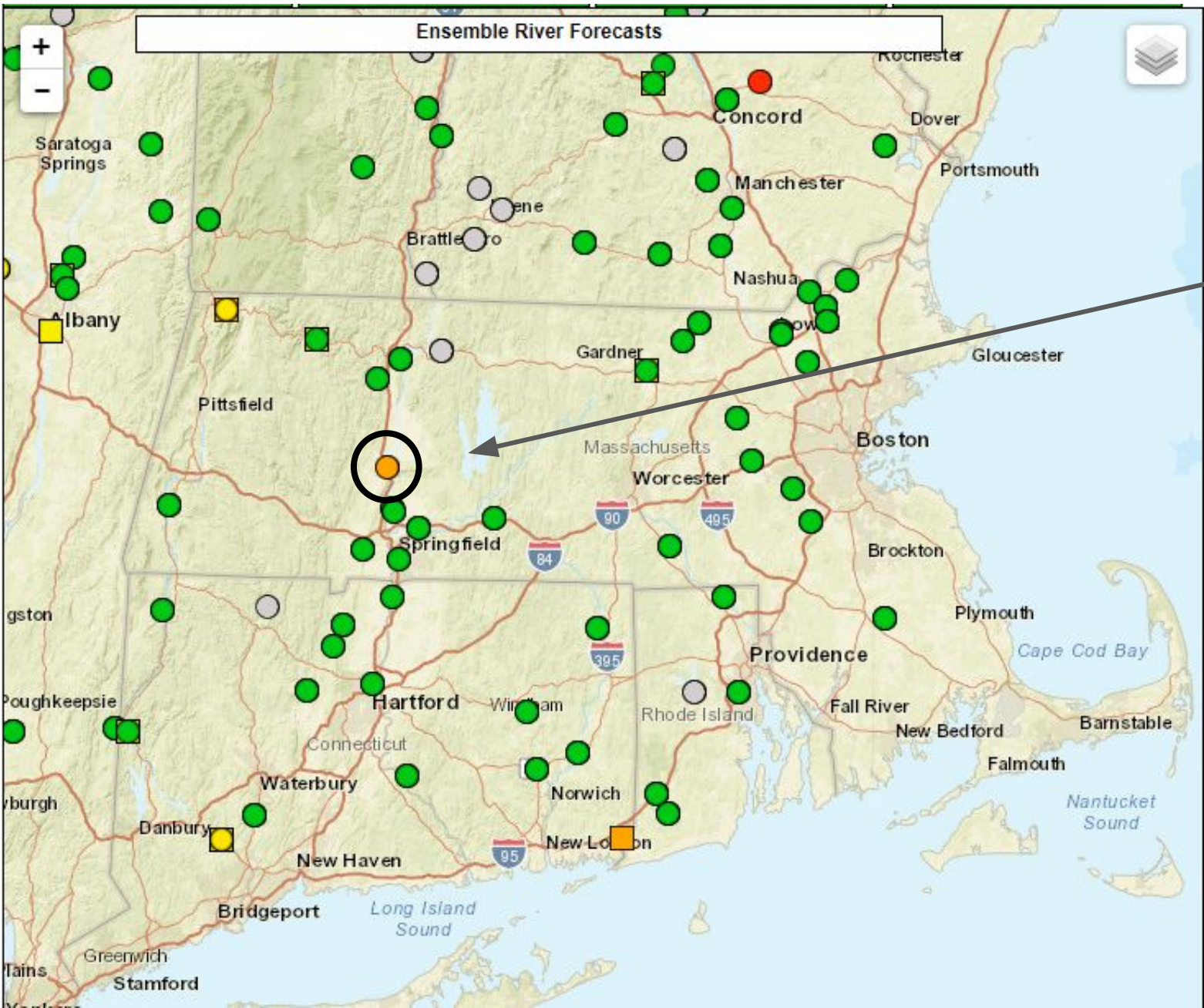






# River Flood Outlook

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4:20 AM



- Most rivers will remain within their banks
- Connecticut River at Northampton, MA could approach minor flood early Sunday morning

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





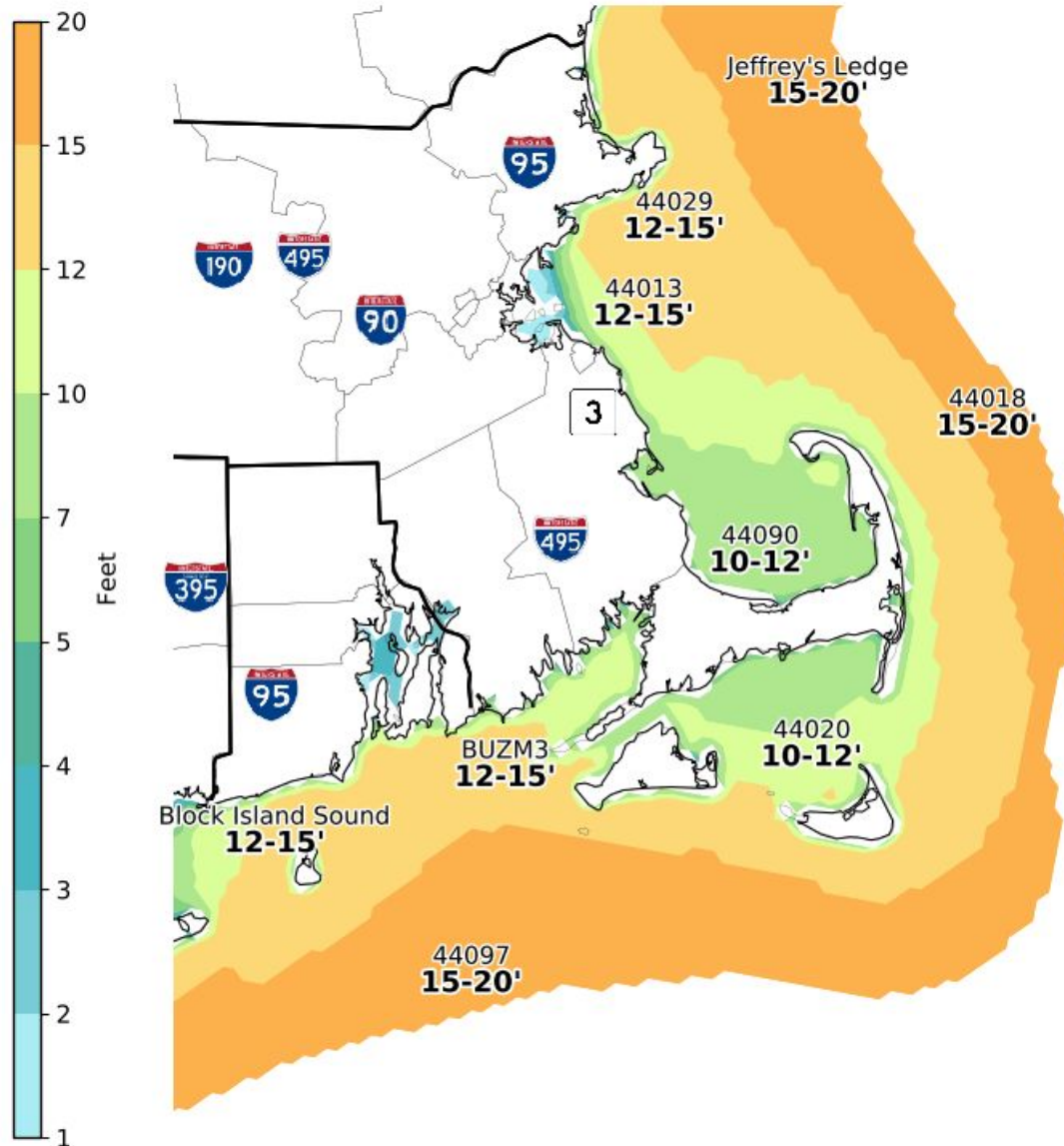


# Marine Impact Timeline

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## Maximum Wave Height

Valid: 12/23/2022 07:00 AM - 12/25/2022 02:00 PM EST



## Peak Gusts:

- Through early this afternoon (S/SE 50-60 kt)

## Departure of Strongest Winds:

- Storm force (S/SW) subsides 6 PM - 9 PM tonight
- Gale force (W) subsides on Saturday
- Gradually subside below 25 kt Sunday

## Seas:

- Rapidly build this morning, peak this afternoon
- Fall below 10 ft nearshore Saturday and offshore on Sunday
- Subside below 5 ft nearshore Sunday afternoon/evening and offshore on Monday

***Light freezing spray on bays/sounds tonight into Sunday***





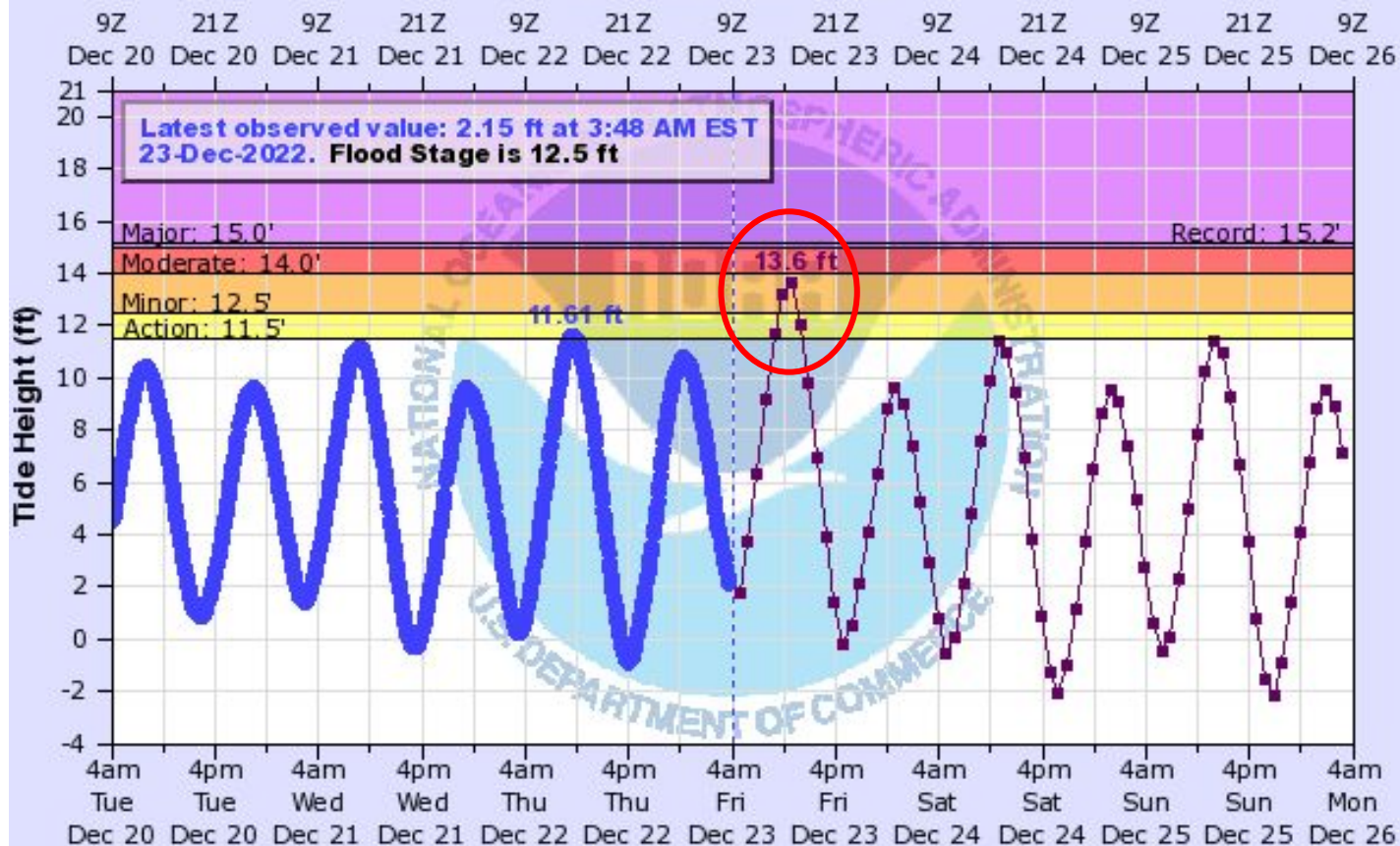


# Coastal Flooding

December 23, 2022  
4:20 AM

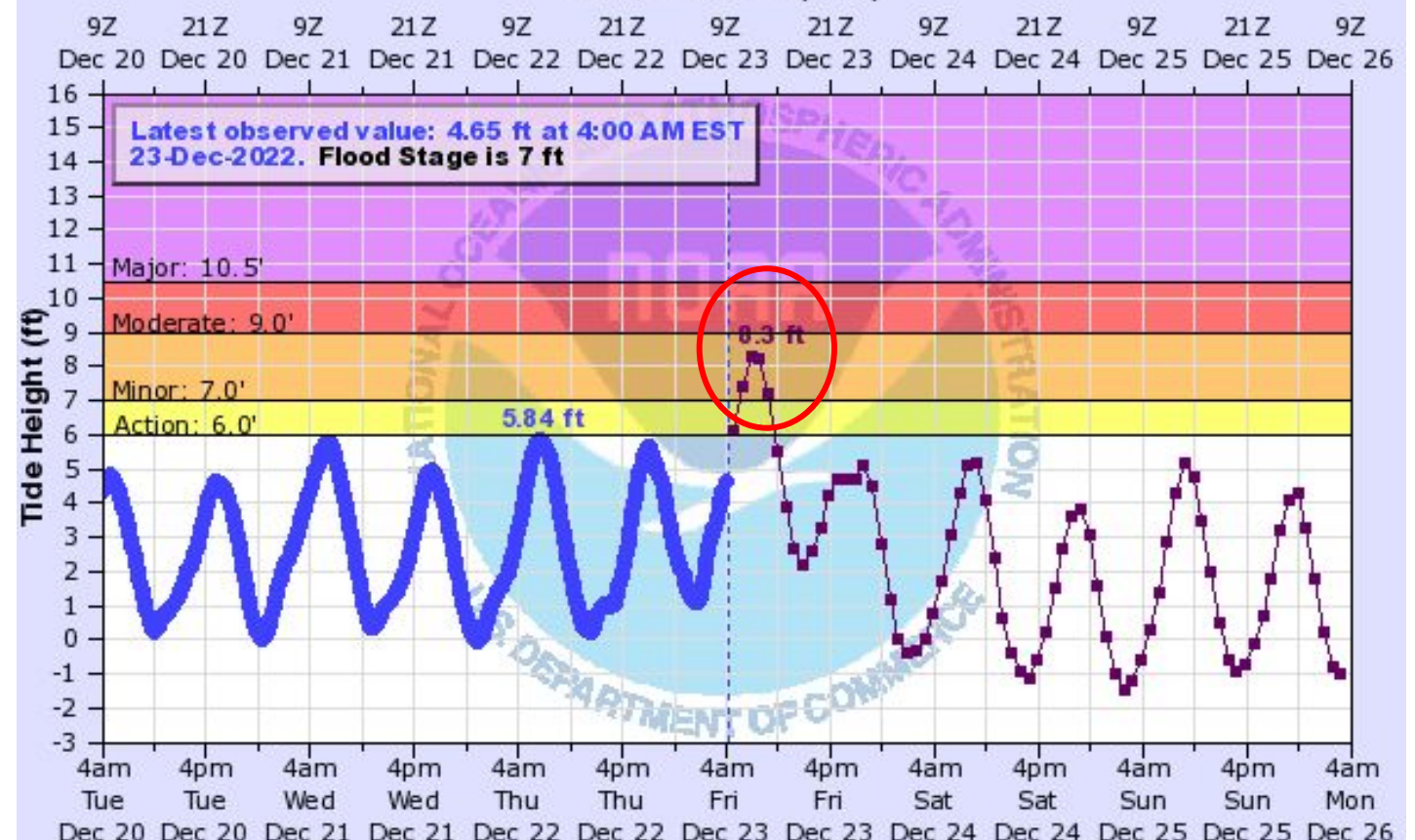
**BOSTON HARBOR AT BOSTON (IN MLLW)**

Universal Time (UTC)



**NARRAGANSETT BAY AT FOX POINT (IN MLLW)**

Universal Time (UTC)



- Pockets of moderate flooding this morning: North of Boston, Edgartown, RI south coast (due to waves)
- Close call for moderate flooding in Providence and New Bedford (outside of barriers)
- Less of a concern this evening along South Coast - splashover or minor flooding at most
- Significant beach erosion along S/SE facing shores (southeast winds around high tide)





# Coastal Flooding Definitions

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## Minor Coastal Flooding

- Flooding up to 1 foot deep, nuisance-type flooding
- Affects the most vulnerable shore roads
- Majority of roads remain passable with only limited closures
- 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 basements of shore homes.
- Debris may wash onto coastal roads from breaking waves.
- Numerous road closures are typically needed.
- Some damage of vulnerable structures such as docks or house decks/porches near the high tide line due to waves.
- Risk to life for those who place themselves in unnecessary danger (driving around barricades, viewing surf from piers or jetties).







# Post Event Outlook

December 23, 2022  
4:20 AM

Very Cold and Windy Tonight and Saturday, Still Cold But Less Wind Sunday

## Maximum Temperature Forecast

	12/23 Fri		12/24 Sat				12/25 Sun				12/26 Mon		
	12pm 6pm		12am 6am 12pm 6pm				12am 6am 12pm 6pm				12am 6am 12pm		
Block Island	53	34	24	23	25	24	24	26	29	30	29	30	33
Boston	54	40	21	21	22	21	17	24	27	26	23	30	32
Gloucester	51	44	22	22	24	21	19	25	27	26	24	30	32
Hartford	49	28	16	18	20	19	15	22	27	24	20	28	31
Hyannis	52	42	26	26	26	24	21	28	29	27	24	32	33
Lowell	54	41	20	20	21	19	17	22	26	23	20	28	31
Nantucket	52	43	29	29	30	28	26	30	31	31	30	33	34
New Bedford	52	39	21	23	24	21	18	26	29	25	22	30	33
Providence	52	35	19	20	22	20	16	24	27	24	21	29	32
Springfield	48	30	16	18	20	17	14	21	26	23	19	26	30
Vineyard Haven	50	41	28	25	27	27	26	28	31	30	30	31	34
Worcester	49	35	16	15	18	17	13	19	23	21	19	25	28

## Minimum Wind Chill Forecast

	12/23 Fri		12/24 Sat				12/25 Sun				12/26 Mon			Minimum
	12pm	6pm	12am	6am	12pm	6pm	12am	6am	12pm	6pm	12am	6am	12pm	
Block Island	26	7	3	2	5	7	7	8	12	17	15	15	20	2
Boston	34	7	1	1	9	5	4	2	13	14	10	10	20	1
Gloucester	38	7	0	-1	7	4	1	1	13	10	7	8	19	-1
Hartford	23	2	-3	-4	6	2	1	2	12	11	9	10	23	-4
Hyannis	35	11	4	4	10	8	6	6	16	12	9	9	22	4
Lowell	36	9	0	0	8	5	1	1	12	11	10	11	20	0
Nantucket	38	14	8	7	14	12	11	11	18	17	16	17	23	7
New Bedford	34	5	1	-2	9	5	2	2	15	12	7	8	23	-2
Providence	33	5	-2	-4	7	3	0	0	13	11	11	11	23	-4
Springfield	24	2	-3	-3	6	2	1	0	12	10	7	6	20	-3
Vineyard Haven	33	14	8	7	9	10	10	10	13	17	15	16	20	7
Worcester	30	1	-5	-6	3	-1	-4	-3	8	7	7	6	17	-6

- Widespread icing is not expected as temperatures fall below freezing this afternoon and evening. Strong winds should produce enough drying to limit the threat, aside from areas of standing water.
- Wind Chill Advisory for the Berkshires. May be expanded into other areas of southern New England in later forecasts.



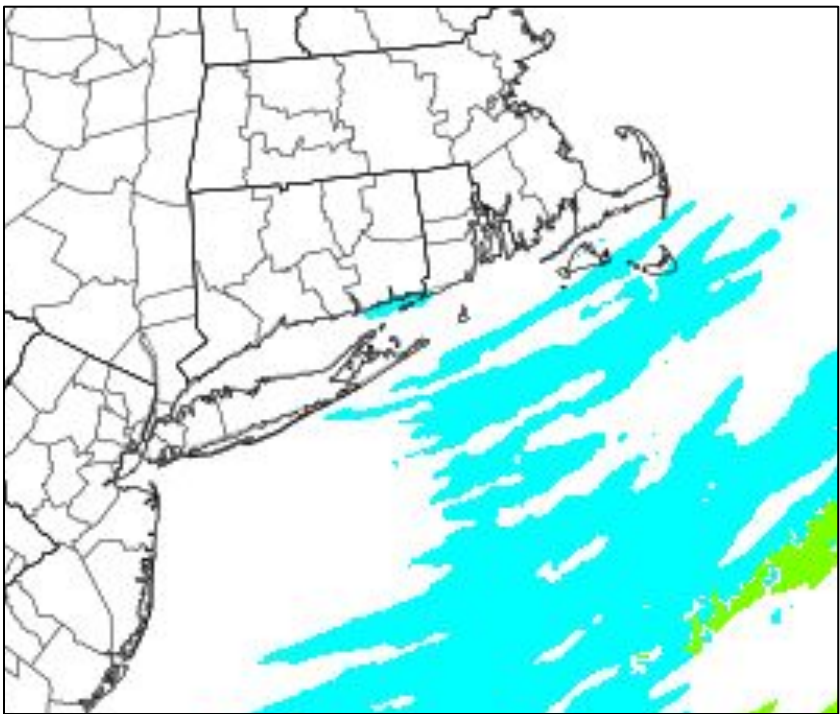




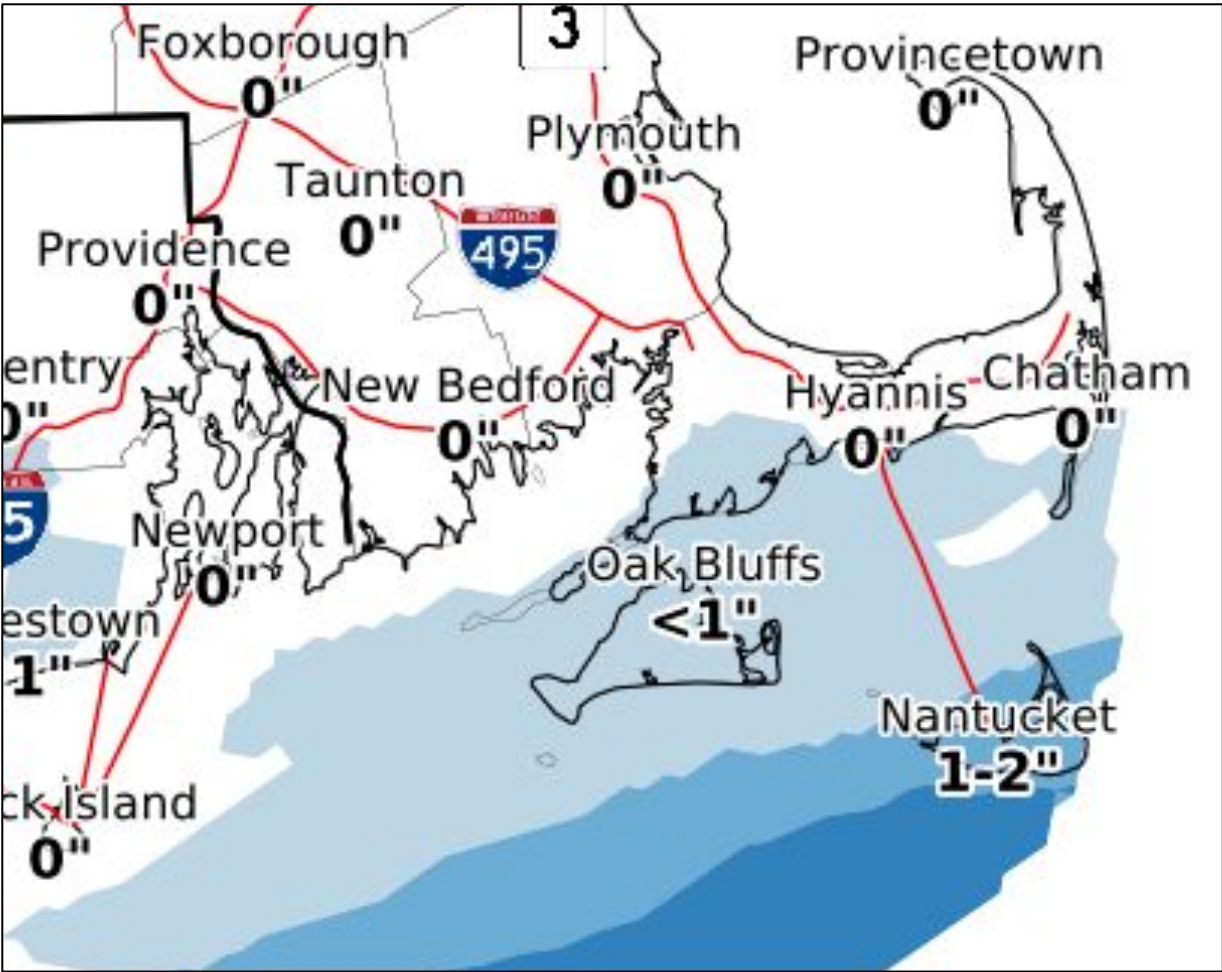
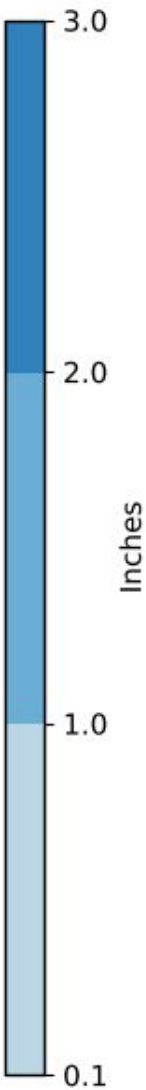
# Post Event Outlook

December 23, 2022  
4:20 AM

## Bands of Snow Showers Near Cape Cod/Islands Saturday and Sunday



Narrow bands of snow showers will graze the Islands and possibly Cape Cod through the weekend.



Localized accumulations of a dusting to 2" expected. Totals will vary over short distances.







# Recap

December 23, 2022  
4:20 AM

## Key Messages

- Damaging winds up to 65 mph through the afternoon. Power outages possible.
- Minor to moderate coastal flooding for this morning's high tide
- Heavy rainfall may cause minor flooding
- Turning sharply colder this afternoon and evening

Hazard	Impacts	Location	Timing
<b>Damaging Wind</b>	Damaging wind gusts up to 65 mph Power outages possible	50-60 mph gusts across all of southern New England 60-65 mph gusts more likely along the coastal areas	Strongest gusts through this afternoon  40+ mph gusts into early Saturday, especially over The Cape/Islands
<b>Coastal Flooding</b>	Minor to moderate coastal flooding	South and East Coasts	This morning
<b>River Flooding</b>	1.0-2.5 inches of rainfall may produce minor flooding	Smaller rivers and streams Urban areas	Today
<b>Marine</b>	Gale to Storm Force Winds High Seas	All of southern New England Coastal Waters	Today through Saturday







# Contact and Next Briefing Information

December 23, 2022  
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For Southern New England



## Briefing Webpage

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



## Next Briefing

→ Last briefing package. Brief emails may be sent today in order to provide quick updates (as needed).



## Disclaimer

→ Information contained in this briefing is time-sensitive  
→ Do Not Use After: 5:00 PM Friday, 12/23/2022



## Contact Information

### Web

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

### Phone

→ (508) 622-3250

### Email

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

### Facebook

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