

NWS Boston / Norton

Emergency Management Briefing

Impactful Storm Friday into Saturday



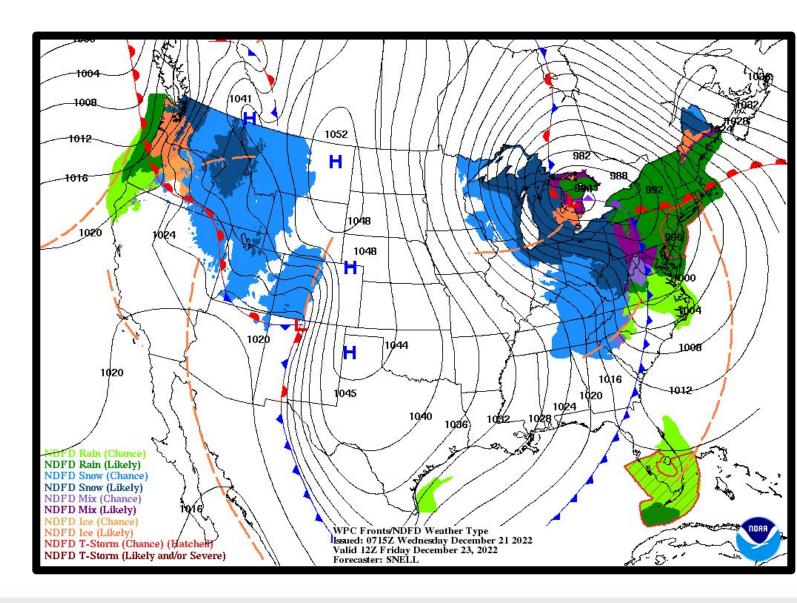


NWS Boston Monday EM Briefing

Key Messages

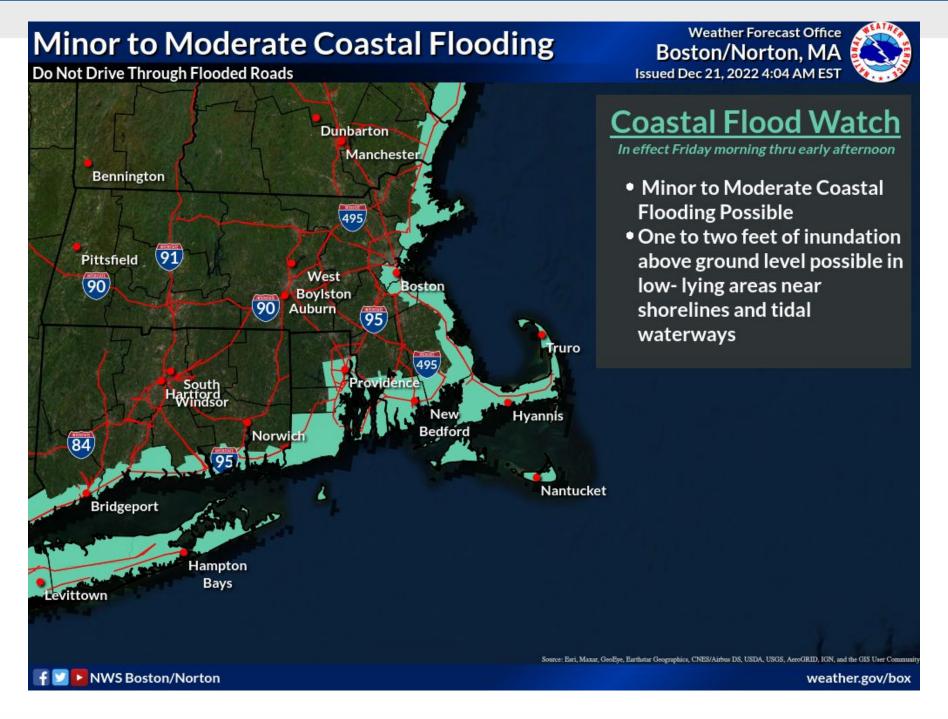
- Powerful Storm late Thursday night into early Saturday
 - Damaging winds up to 65 mph. Power outages possible.
 - Locally heavy rainfall 2+ inches
 - Minor to moderate coastal flooding Friday
 - Minor to moderate river flooding possible
- Christmas Day quiet, but colder
- Coastal Flood Watch issued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

7 AM Friday Weather Map



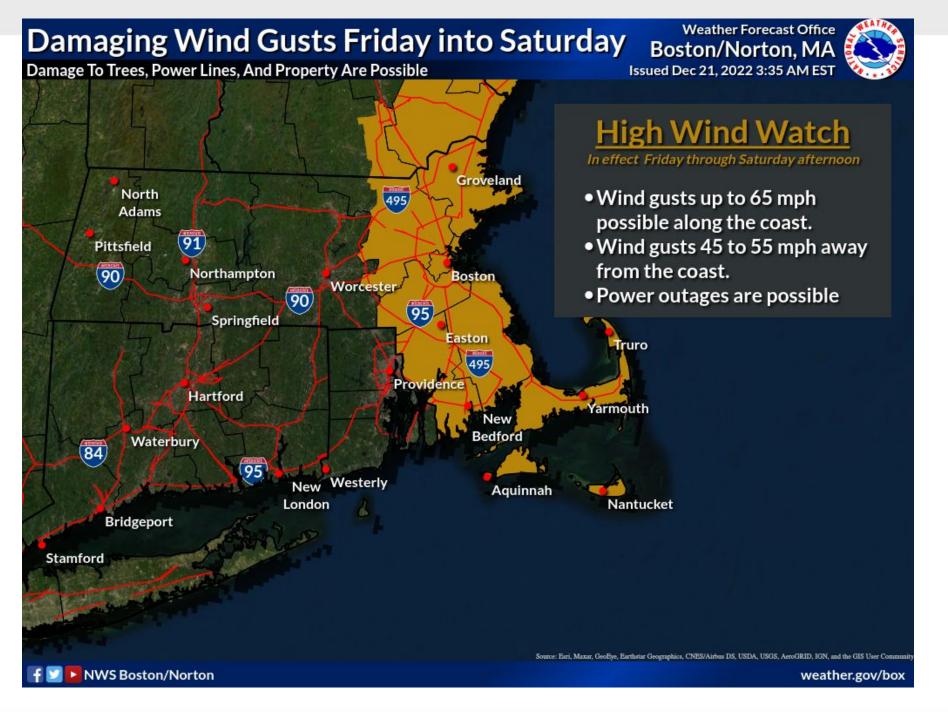


Coastal Flood Watch



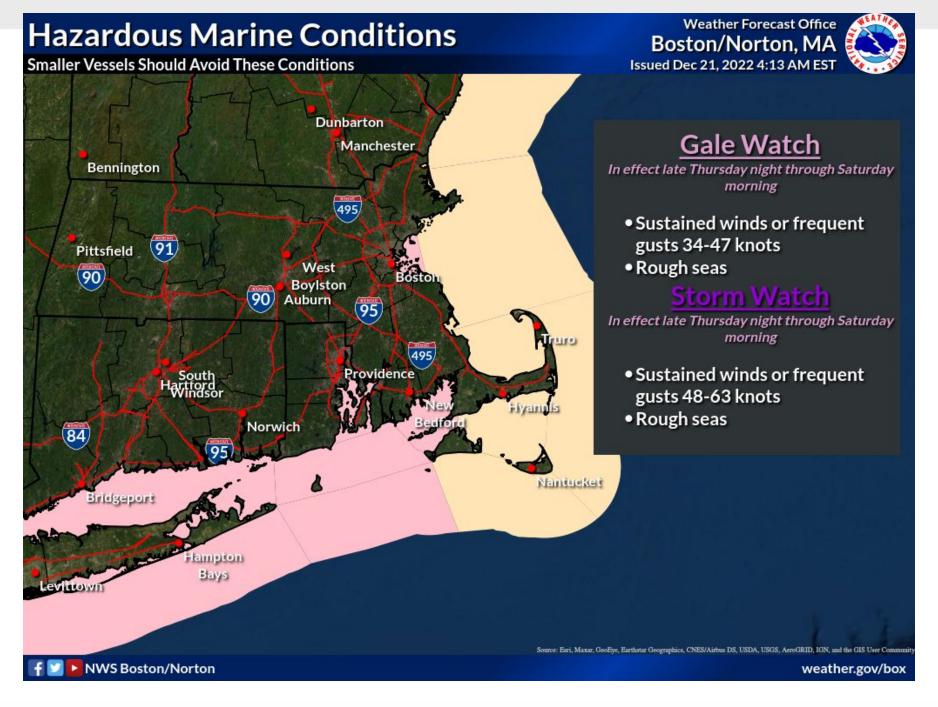


High Wind Watch





Hazardous Marine Conditions





Main Points

Haza	rd	Impacts	Location	Timing				
Damaging Wind		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				
Coastal Flooding		Minor to moderate coastal flooding	South and East Coasts	Friday morning: South and East Coasts Friday evening: South Coast				
River Flooding		Heavy rainfall and snowmelt may support minor river flooding	Along the Connecticut River Other small stream flooding possible	Small stream flooding possible Friday Larger rivers cresting Saturday and Sunday				
Marine		Gale to Storm Force Winds High Seas	All of southern New England Coastal Waters	Thursday Night through Saturday				





Peak Wind Gusts Friday Afternoon

- 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

	4.5	4			0.00													20					
/	12/22				12/23			12/24				12/25				12/26				12/27			
	Thu				Fri				Sat				Sun				Mon				Tue		
	12am 6am 12pm 6pm		6pm	12am 6am 12pm 6pm				12am 6am 12pm 6pm			12am 6am 12pm 6pm			12am 6am 12pm 6pm				12am	Maximum				
	Boston	7→	94	14	26	47	54	58	54	41	31	28	22	22	22	21	18	16	15	14	12	10	58
	Brockton	6 *	10	15	25	45	55	591	55	43	32	29	22	20	22	21	16	15	14	15	10	9-	59
	Cambridge	6→	9 ←	14	25	46	55	58	55	41	30	28	22	21	22	21	18	16	15	14	12	10	58
	Hartford	3♣	94	16	31	47	49	52	48	32	30	26	20	18	17	20	14	13	12	13	10	72	52
	Lowell	3→	7 4	10	18	43	52	55	53	39	26	25	18	17	20	21	15	13	13	14	8.	72	55
	New Bedford	7\$	15	18	29	47	56	61	58	47	40	36	28	23	22	23	21→	18→	16	14	13	12	61
	Providence	5⋭	10 ←	16	25	46	54	60	56	41	31	30*	21	17*	20	21	15	14	12	13	9.7	7→	60
•	Quincy	8	9	15	28	45	54	56	53	41	32	29	22	21	21	21	18	17→	16	15	13	12	56
	Springfield	5⋭	84	16 ←	28	47	48	52	49	35	30	26	21	20	17	20	15	14	12	13	12	8.	52
	Worcester	6→	94	13	23	41	48	53	59	39	31	28	20	20	21	21	16	14	13	14	10	92	59
	*Table values in n	nnh					110	\$-5-	64						7.0								100

^{**}Created: 4 am EST Wed 12/21/2022

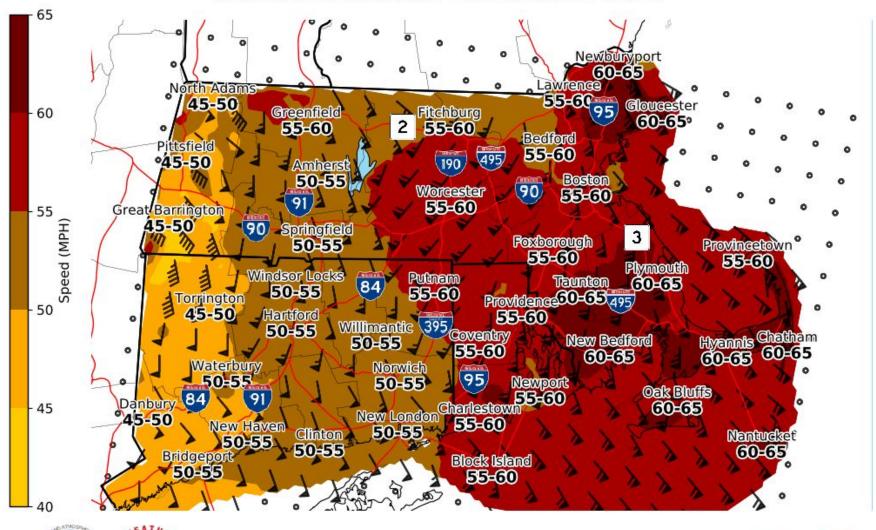
^{***}Values are maximums over the period beginning at the time shown.



Peak Wind Gusts Friday Afternoon

Max Wind Gusts (MPH)

Valid: 12/23/2022 07:00 AM - 12/24/2022 07:00 AM EST





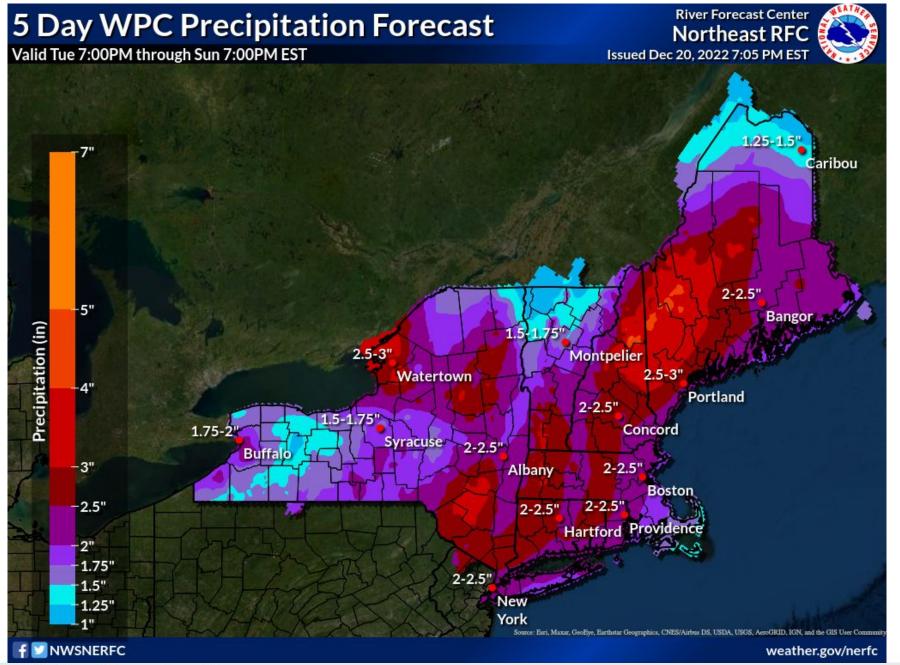
National Weather Service Boston/Norton, MA 12/21/2022 03:01 AM EST





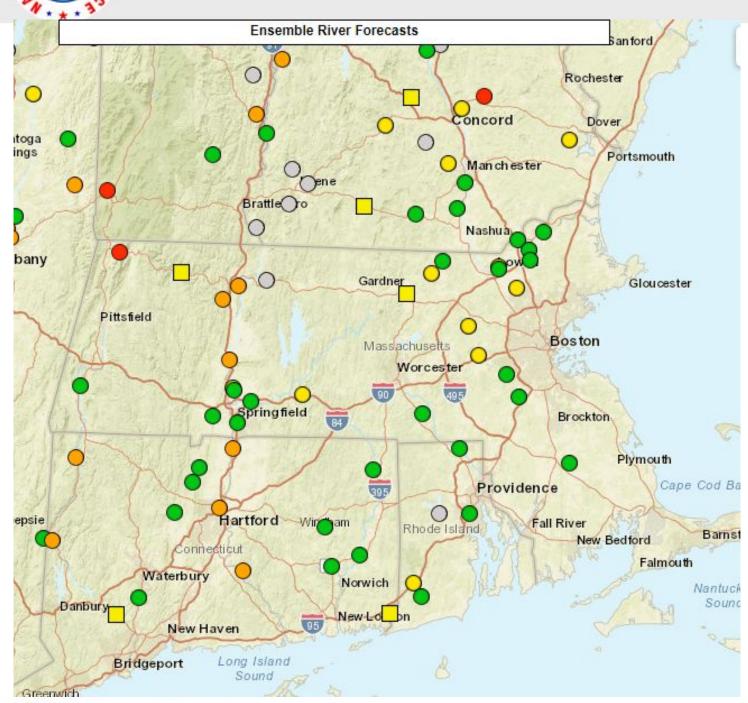


5 Day Precipitation Forecast



- 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 2.5 inches with locally higher amounts

River Levels Outlook



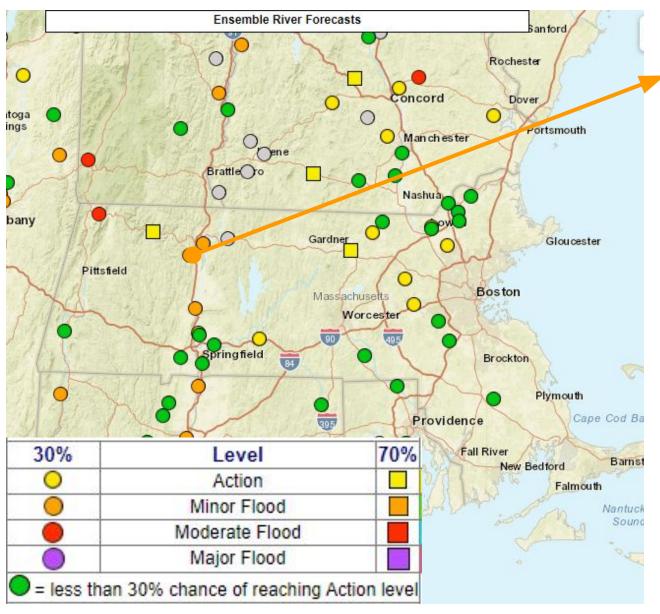
 Rain/Snowmelt across northern New England resulting in a potential for minor flooding along the Connecticut River (late Saturday through Monday)

Level	70%
Action	
Minor Flood	
Moderate Flood	
Major Flood	
	Action Minor Flood Moderate Flood



River Levels Outlook

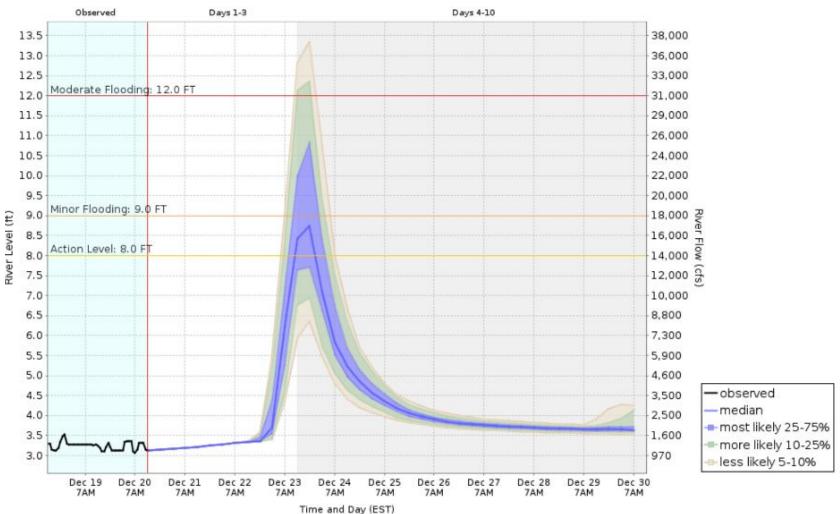
Connecticut River at Deerfield



Latest forecast crest is early Sunday morning

Dec 20 - Dec 30, 2022

Deerfield River at West Deerfield (WDEM3)



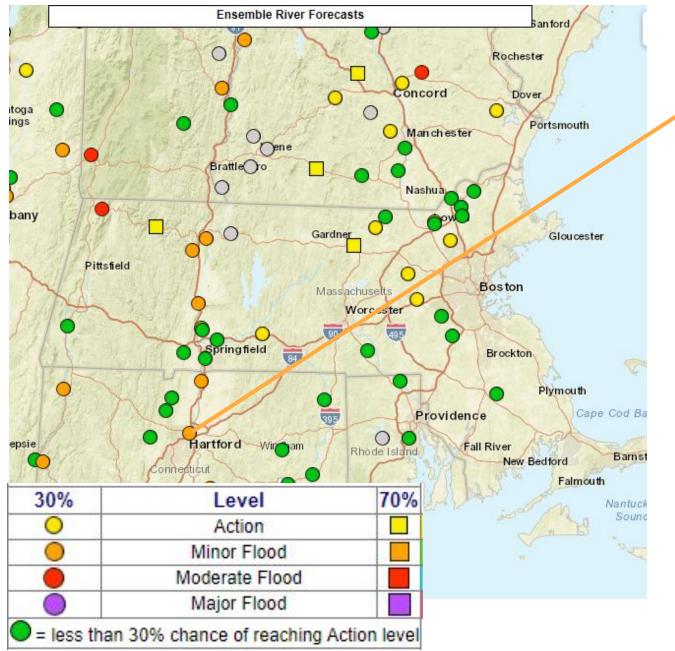
Model runtime: 01:00 PM EST Dec 20 2022





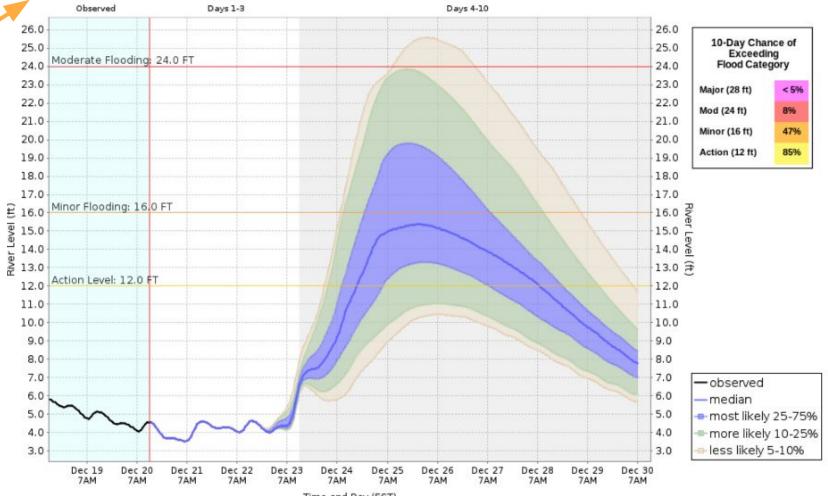
River Levels Outlook

Connecticut River at Hartford



Latest forecast crest is late Sunday

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

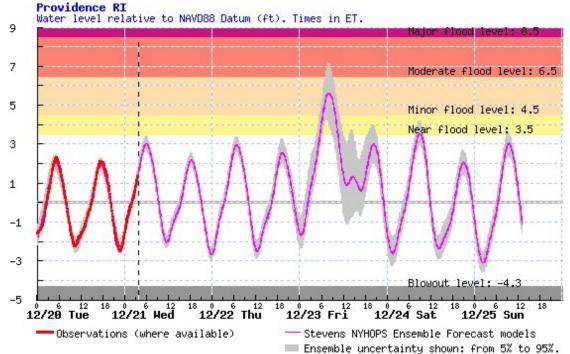


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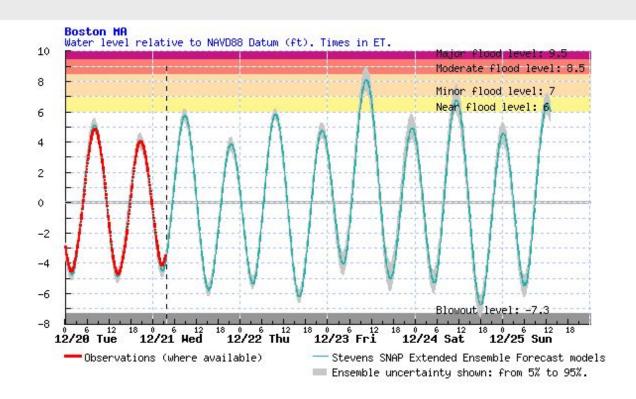




Coastal Flooding Potential



- 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

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.



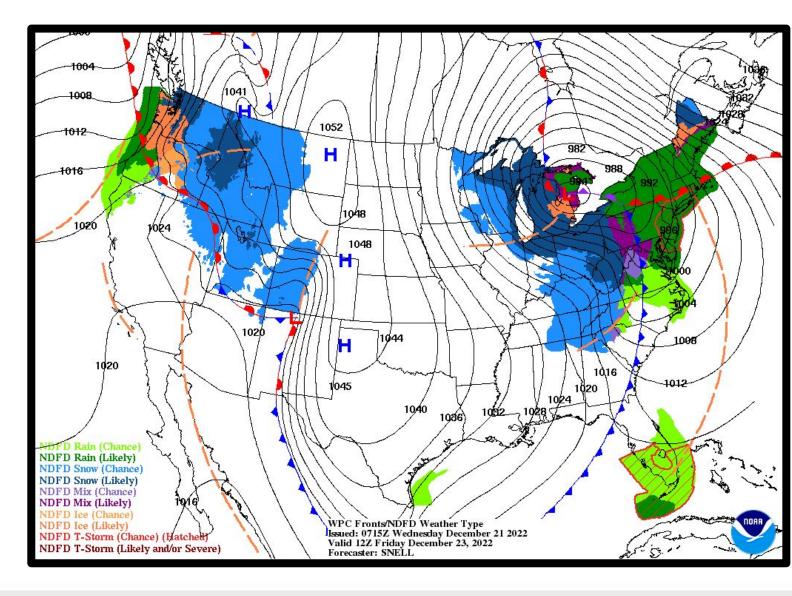




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7 AM Friday Weather Map



Contact and Next Briefing Information

December 21, 2022 3:50 AM

For Southern New England



Briefing Webpage

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



Next Briefing

→ By Wednesday at 5 PM



Disclaimer

Information contained in this briefing is time-sensitive

→ Do Not Use After: 06:00 PM Wednesday, 12/21/2022



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