



December 17, 2023

**National Weather Service
Boston / Norton, MA**



Active Headlines

December 17, 2023
4:06 AM

Hazards

- High Wind Warning
- Storm Warning
- Coastal Flood Warning
- Small Craft Advisory
- Wind Advisory
- Flood Watch
- High Wind Watch
- Coastal Flood Watch
- Storm Watch



Graphic Created
December 17th, 2023
2:30 AM CST

Marine / Coastal Hazards

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



Graphic Created
December 17th, 2023
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Wind Related Hazards

- High Wind Warning
- Wind Advisory
- High Wind Watch



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Flooding Hazards

- Flood Watch



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December 17th, 2023
2:30 AM CST







National
Weather Service
U.S. Department of Commerce

Service
in, MA



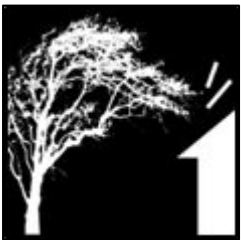
Key Points

Hazard		Impacts	Location	Timing
Damaging Wind		Downed trees/power lines and power outages possible	RI/MA I-95 south and east, including Cape/Islands	Overnight Sunday through Monday Evening
Coastal Flooding		Minor to moderate flooding coastal roads	Narragansett Bay, and RI/MA south coast	Monday noon high tide
Flooding Rain		Street flooding & Minor/moderate river/stream flooding	West of I-95 corridor, especially CT into adjacent MA and RI	Overnight Sunday into Monday
Hazardous Winds/Seas		Dangerous sea conditions for vessels	MA and RI waters	Sunday evening through Monday night



Summary of Greatest Impacts

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<u>Wind:</u>	All of southern New England, especially coast				
None	Limited	Elevated	Significant	Extreme	



<u>Coastal Flooding:</u>	South Coastal MA and RI				
None	Limited	Elevated	Significant	Extreme	



<u>Flooding Rain:</u>	CT and western MA				
None	Limited	Elevated	Significant	Extreme	



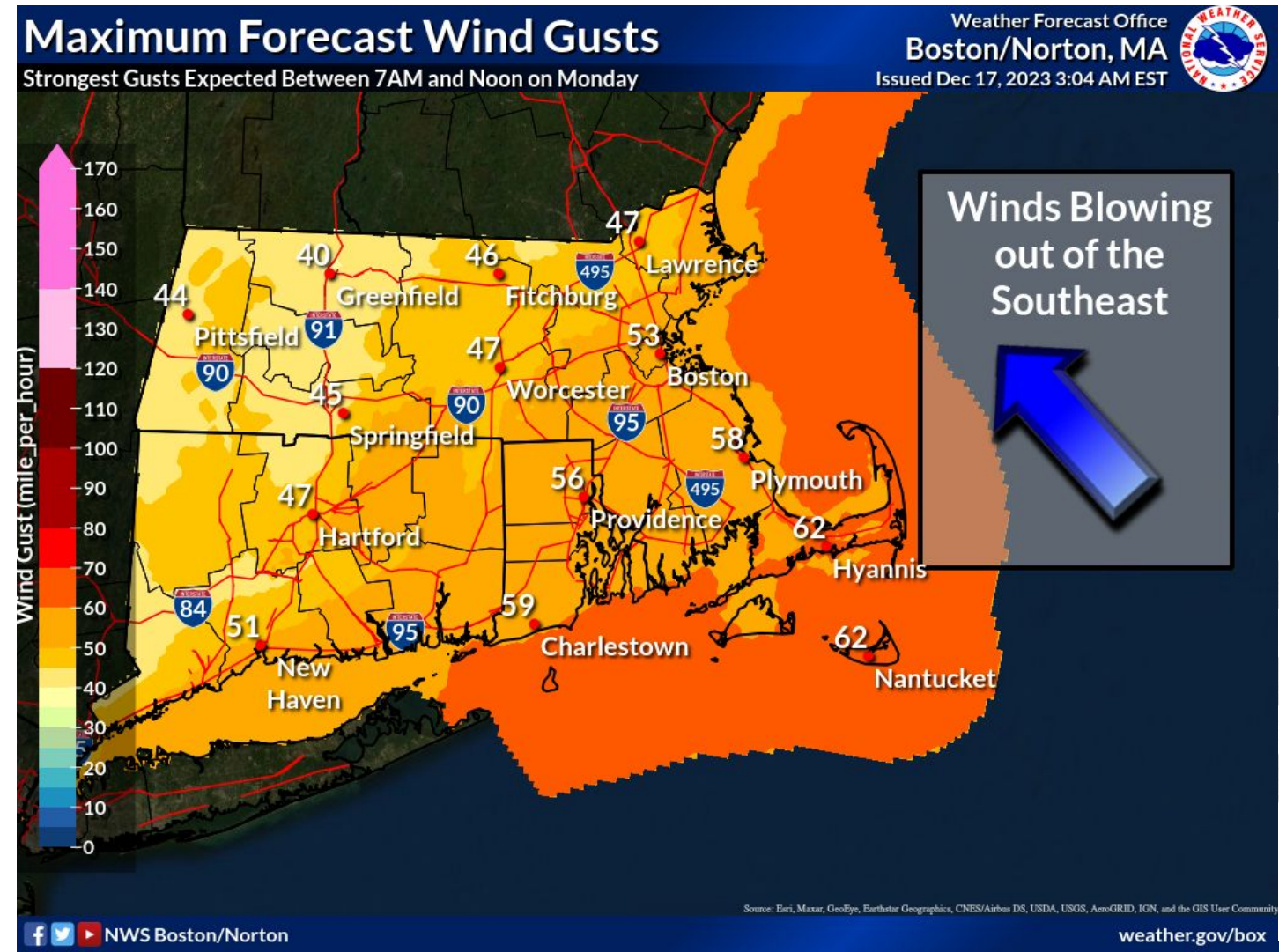
<u>Marine Travel:</u>	MA and RI waters				
None	Limited	Elevated	Significant	Extreme	





Max Wind Gusts

Wind Gusts will peak Monday Morning



Wind Gust Forecast (mph)

12/18
Mon

	4am	5am	6am	7am	8am	9am	10am	11am	12pm	1pm	2pm	3pm	4pm	5pm	6pm	7pm	8pm	9pm	Maximum
Boston	31	36	40	45	48	52	49	49	44	44	43	41	40	31	28	25	26	26	52
Gloucester	40	45	49	54	58	59	56	56	51	51	49	49	48	38	33	26	28	30	59
Hartford	36	40	45	48	46	46	45	43	35	32	31	29	26	20	18	17	17	18	48
Hyannis	45	48	54	58	60	62	59	56	52	52	52	52	51	43	38	36	35	32	62
Lowell	29	33	38	43	46	46	46	46	39	40	38	37	36	26	24	22	23	25	46
Nantucket	49	53	56	59	60	62	58	58	54	53	53	52	52	43	39	36	33	31	62
New Bedford	45	48	52	55	58	58	54	53	47	47	46	45	44	35	30	26	28	30	58
New Haven	48	49	49	51	48	46	44	43	41	41	38	33	31	30	28	29	25	21	51
Newport	47	51	55	59	60	60	56	55	48	47	47	46	46	37	31	26	26	26	60
Pittsfield	36	38	39	40	41	41	41	38	36	32	29	26	25	24	24	24	23	20	41
Providence	36	40	45	49	51	52	53	53	53	53	52	49	48	43	37	30	25	21	53
Springfield	36	39	43	46	43	45	45	44	37	36	32	28	24	16	16	16	17	20	46
Worcester	37	39	43	46	48	51	53	51	48	46	44	41	39	36	33	31	28	25	53

Wind Gust Forecast (mph)

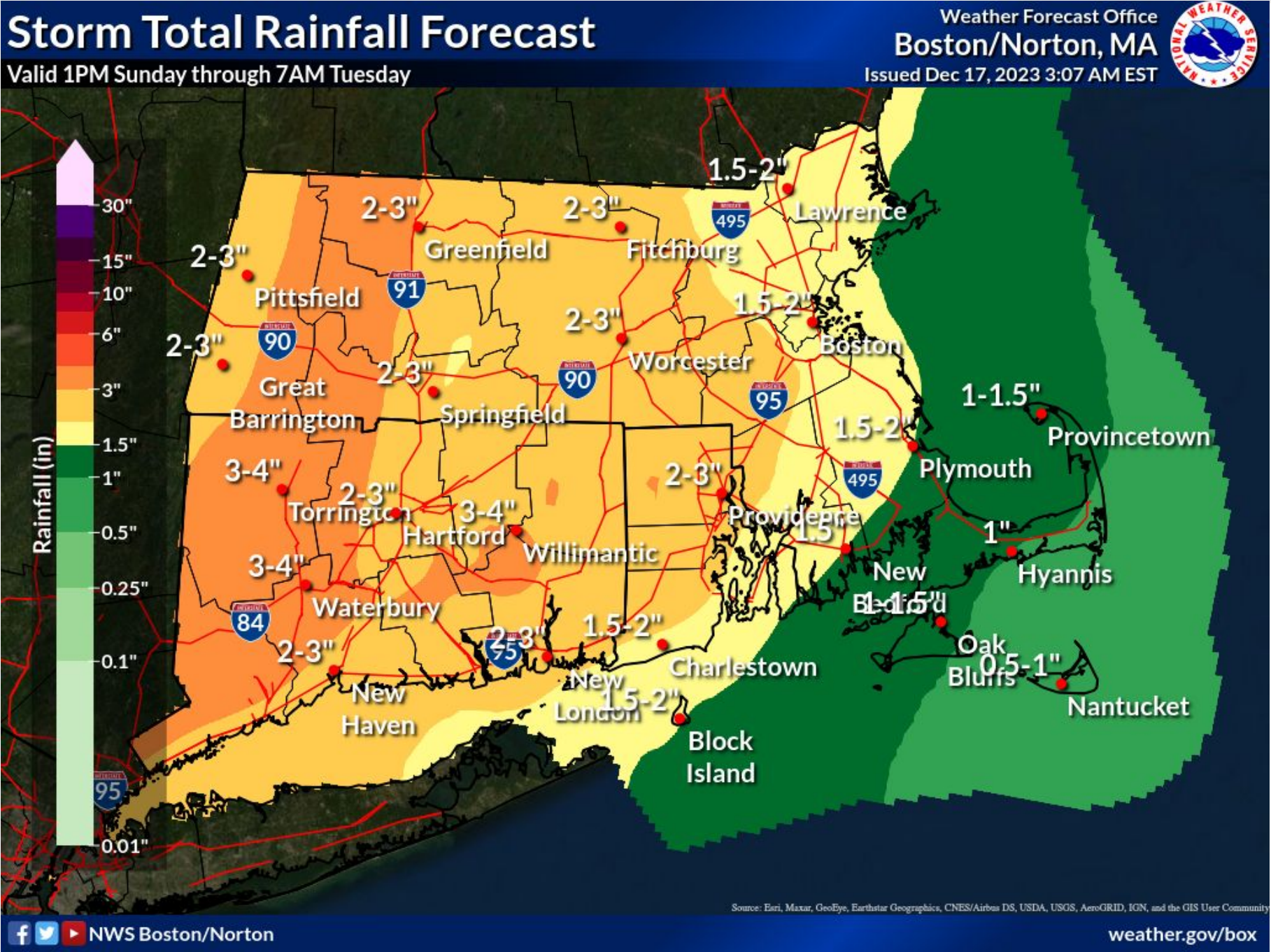
Created: 3 am EST Sun 12/17/2023 |





Forecast Rain Totals

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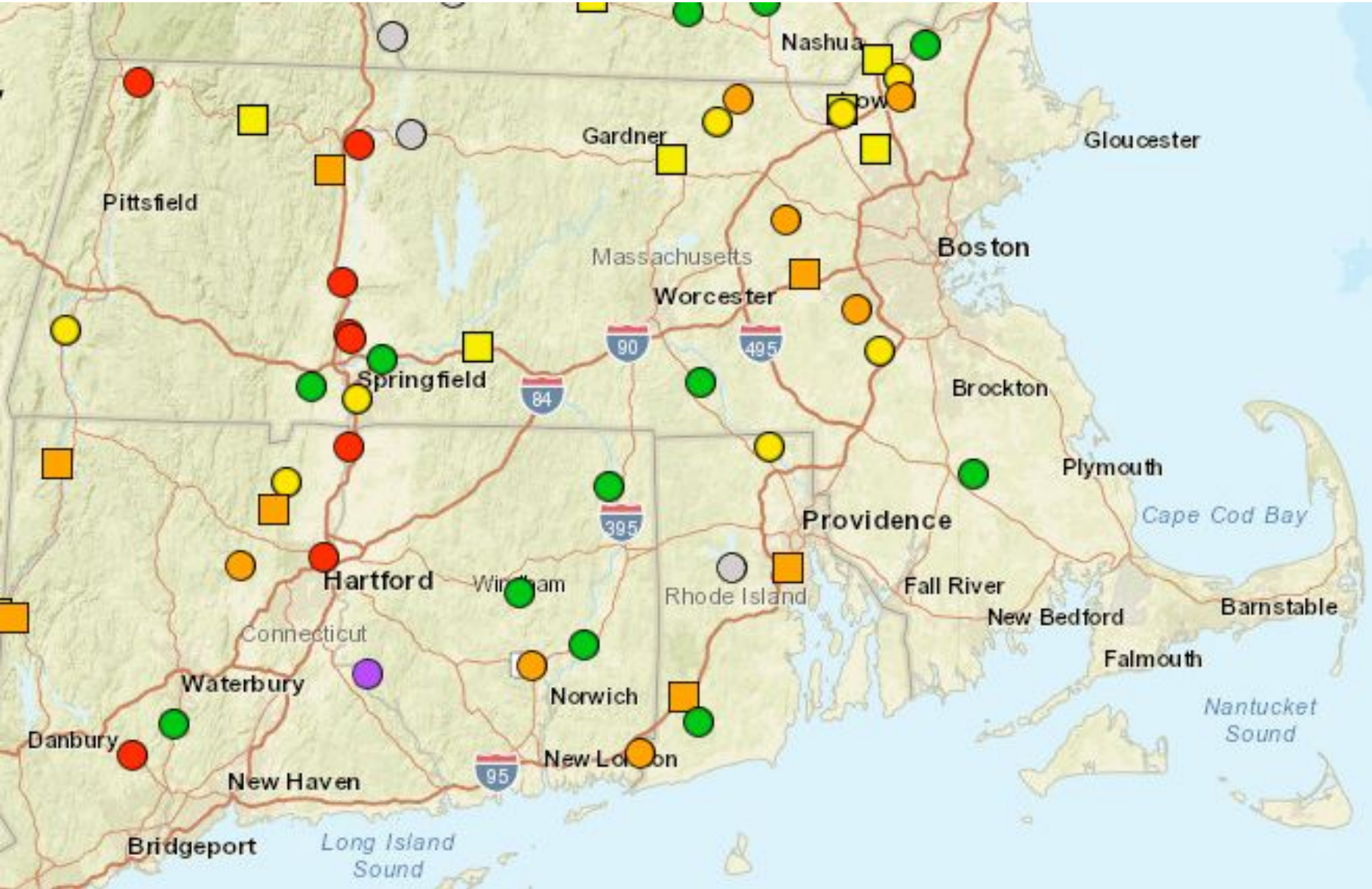
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River Flood Outlook

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- Minor to Moderate river flooding is possible
- Greatest Risk for Moderate River Flooding is in the CT River Valley

Extent and level of flooding is dependent upon rainfall amounts

Map Legend Below

Chance of Exceedance		
30%	Level	70%
	Action	
	Minor Flood	
	Moderate Flood	
	Major Flood	
= less than 30% chance of reaching Action level		
= no critical levels defined for this point		

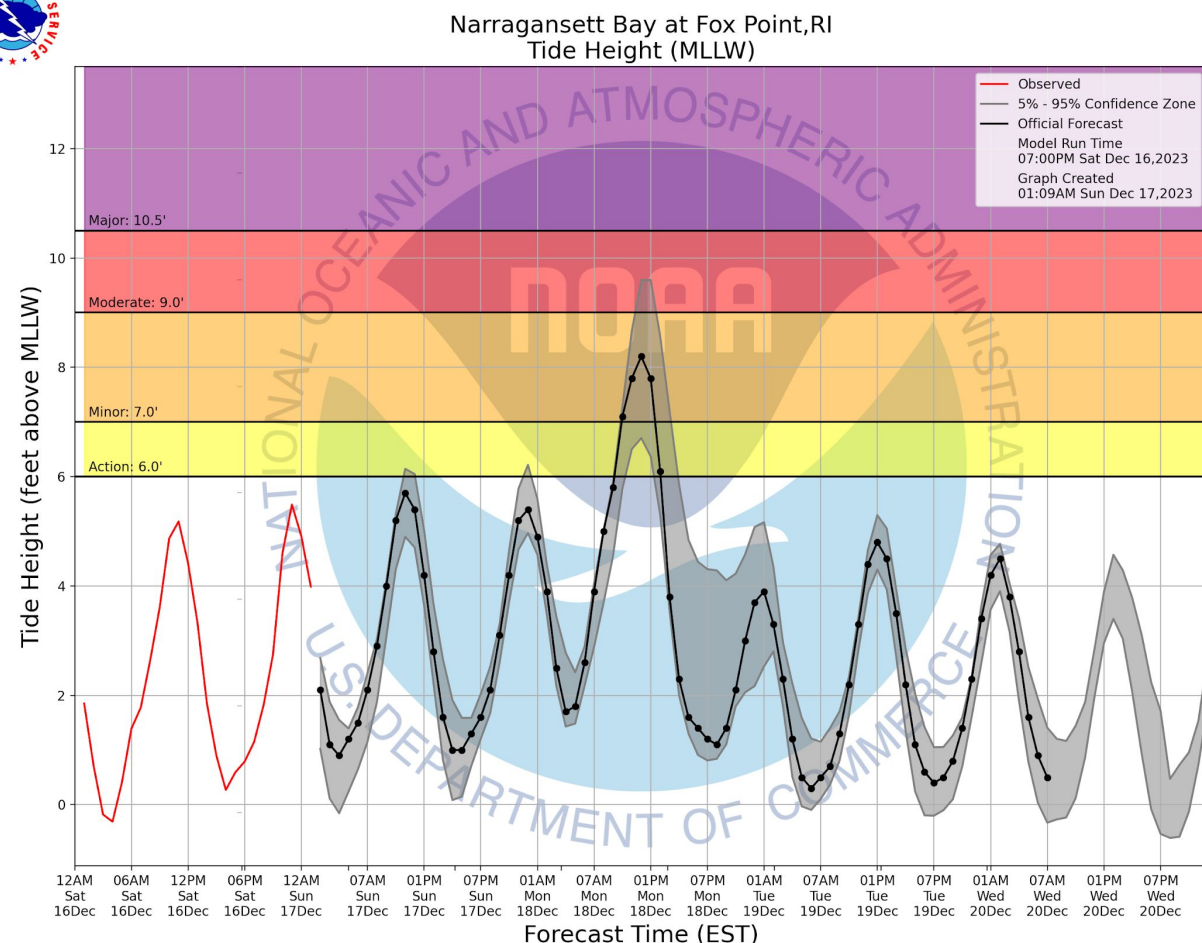




Coastal Flooding

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Total Water Level Forecast: Providence



- High confidence for at least Minor Coastal Flooding surrounding the Monday mid-day high tide, with the potential for Moderate Coastal Flooding in Narragansett Bay
- Lower risk of minor flooding/splash over along the rest of RI/MA south and east coasts



Minor

Moderate

Minor: flooding less than one foot deep

Moderate: flooding 1 to 2 feet deep



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Coastal Flood Forecast

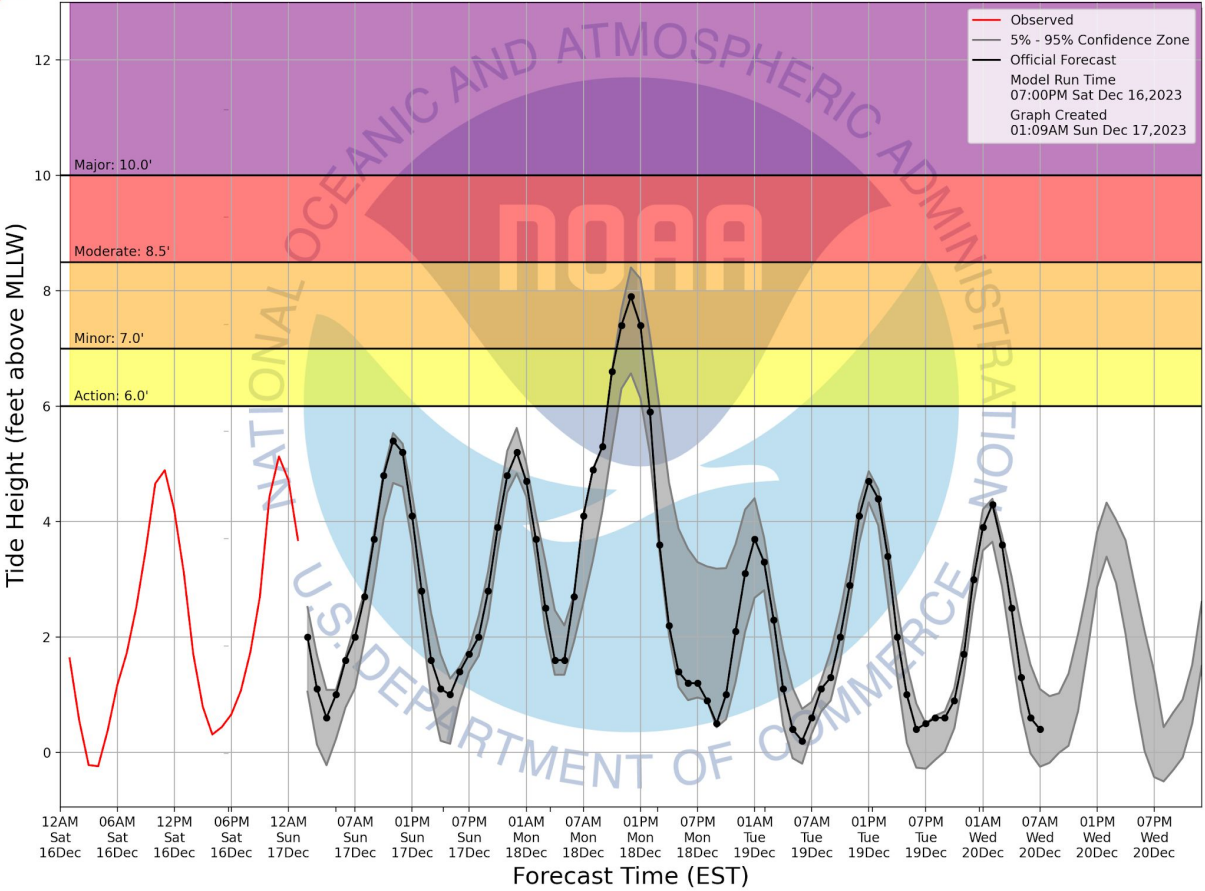
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High Confidence in impacts from Minor Coastal Flooding with potential Moderate Coastal Flooding in Narragansett Bay

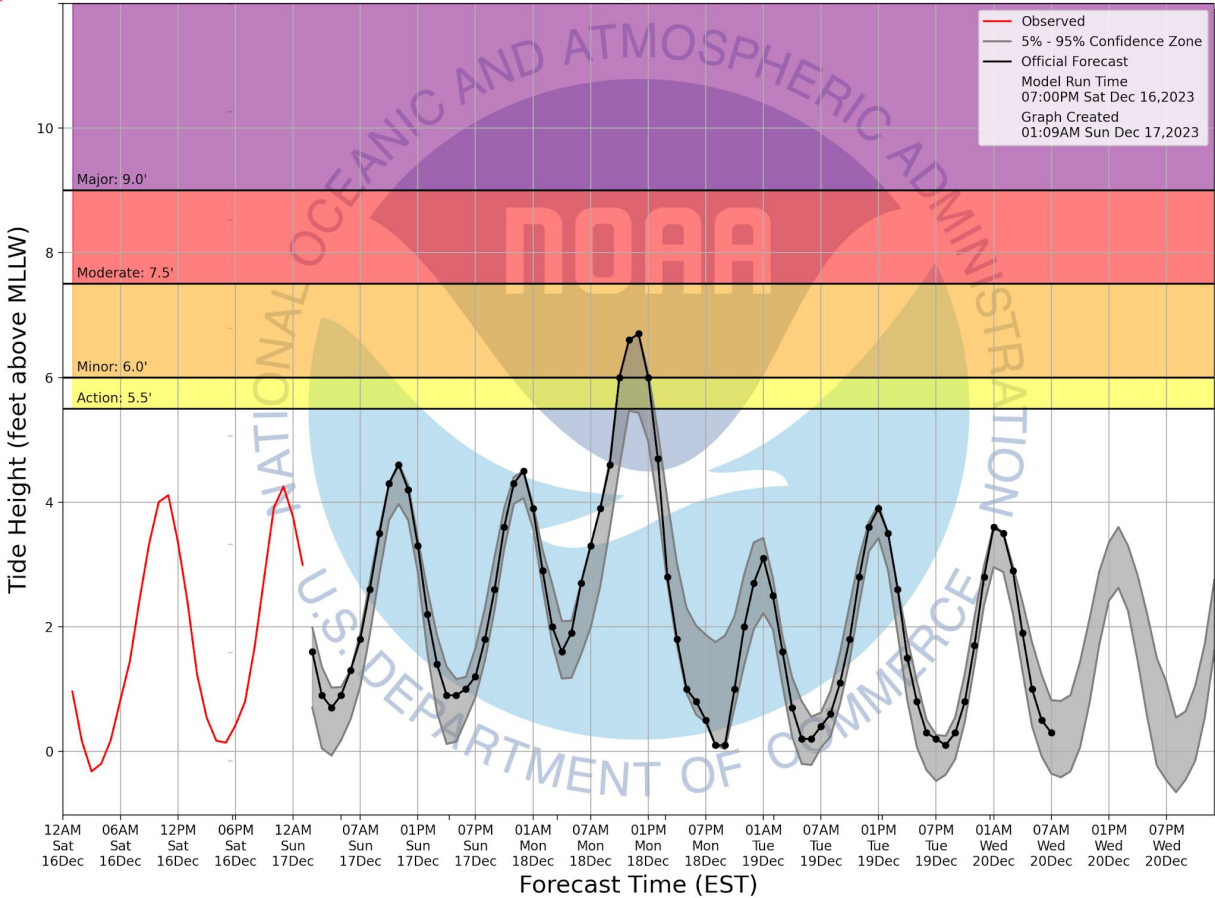
****Flood threat is contingent on the Monday lunchtime high tide coinciding with the timing of highest southeast winds.****



Narragansett Bay at Conimicut Light, RI
Tide Height (MLLW)



Narragansett Bay at Newport Harbor, RI
Tide Height (MLLW)





Threat Event Summary

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➤ **Confidence:** High (80%) on a high impact storm

➤ **What:**



Downed trees/power lines from 40-60 mph winds, strongest coast



Minor to moderate coastal flooding, especially along Narragansett Bay



Minor to moderate river/stream flooding. Significant street flooding likely



Dangerous conditions for marine vessels Sun evening through Monday

➤ **Where:** All of southern New England (CT, MA, and RI)

➤ **When:** Overnight Sunday into Monday





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