

# **National Weather Service Boston / Norton**

# **Decision Support Briefing #5**

Sunday December 17th 2023, 4PM  $\rightarrow$ 

# **Headlines in Effect**

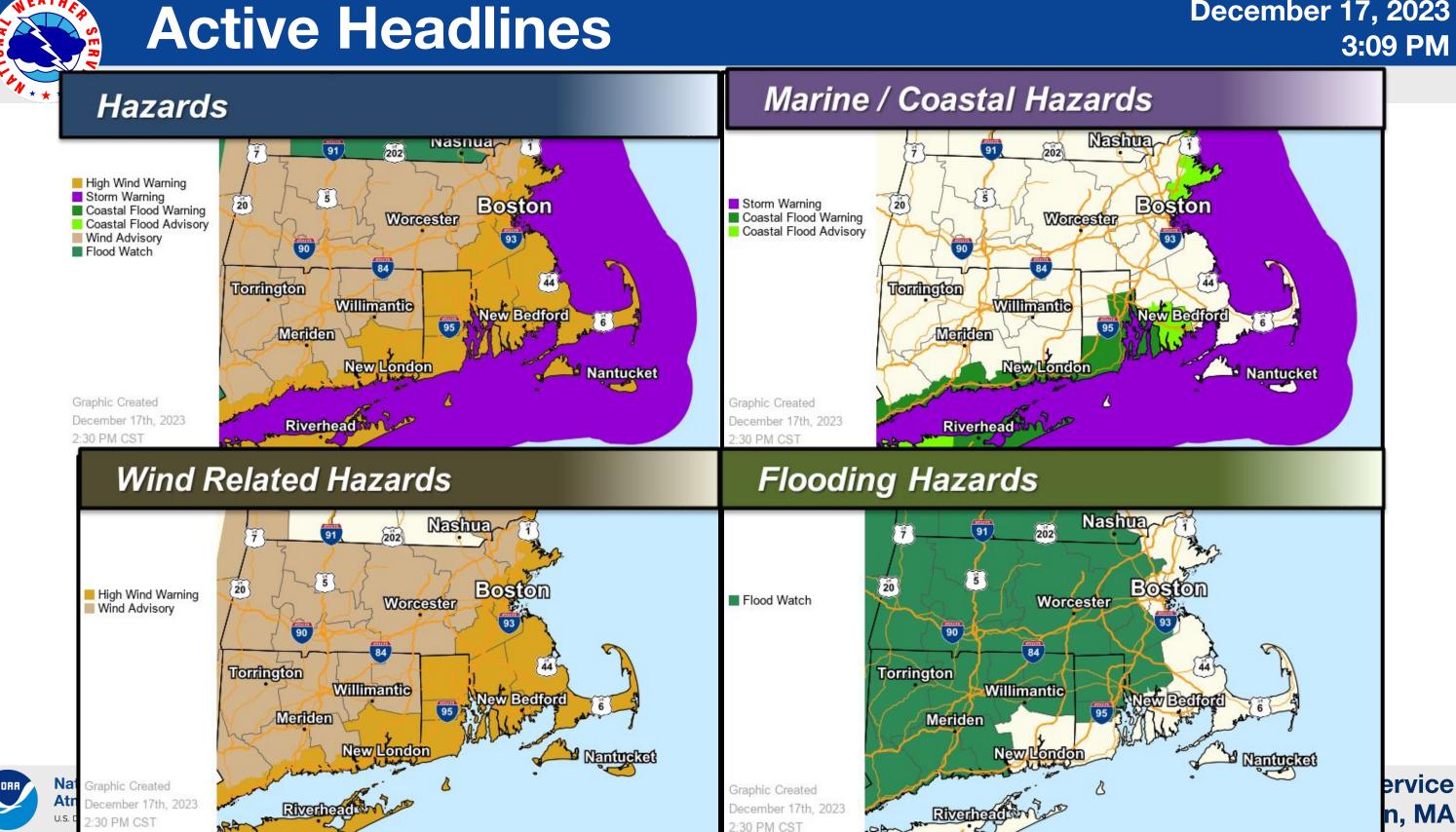
- High Wind Warning for RI and areas south and east of I-95
- Wind Advisory elsewhere  $\rightarrow$
- Storm Warning for the waters
- Flood Watch remains in effect  $\rightarrow$
- Coastal Flood Warning RI, Coastal  $\rightarrow$ Flood Advisory for the MA South Coast and Coastal Essex County

# **Timing: Overnight Sunday** through Monday





### **December 17, 2023** 3:09 PM



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# **Key Points**

Hazaı	rd	Impacts	Location	т
Damaging Wind	1	Downed trees/power lines and power outages possible	RI/MA I-95 south and east, including Cape/Islands	Overnigh through N Evening
Coastal Flooding		Minor to moderate flooding coastal roads	Narragansett Bay, and RI/MA south coast, Essex County	Monday tide
Flooding Rain		Street flooding & Minor/moderate river/stream flooding	West of I-95 corridor, especially CT into adjacent MA and RI	Overnigh into Mon
Hazardous Winds/Seas		Dangerous sea conditions for vessels	MA and RI waters	Sunday e through I



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### **Fiming**

### ht Sunday Monday

## midday high

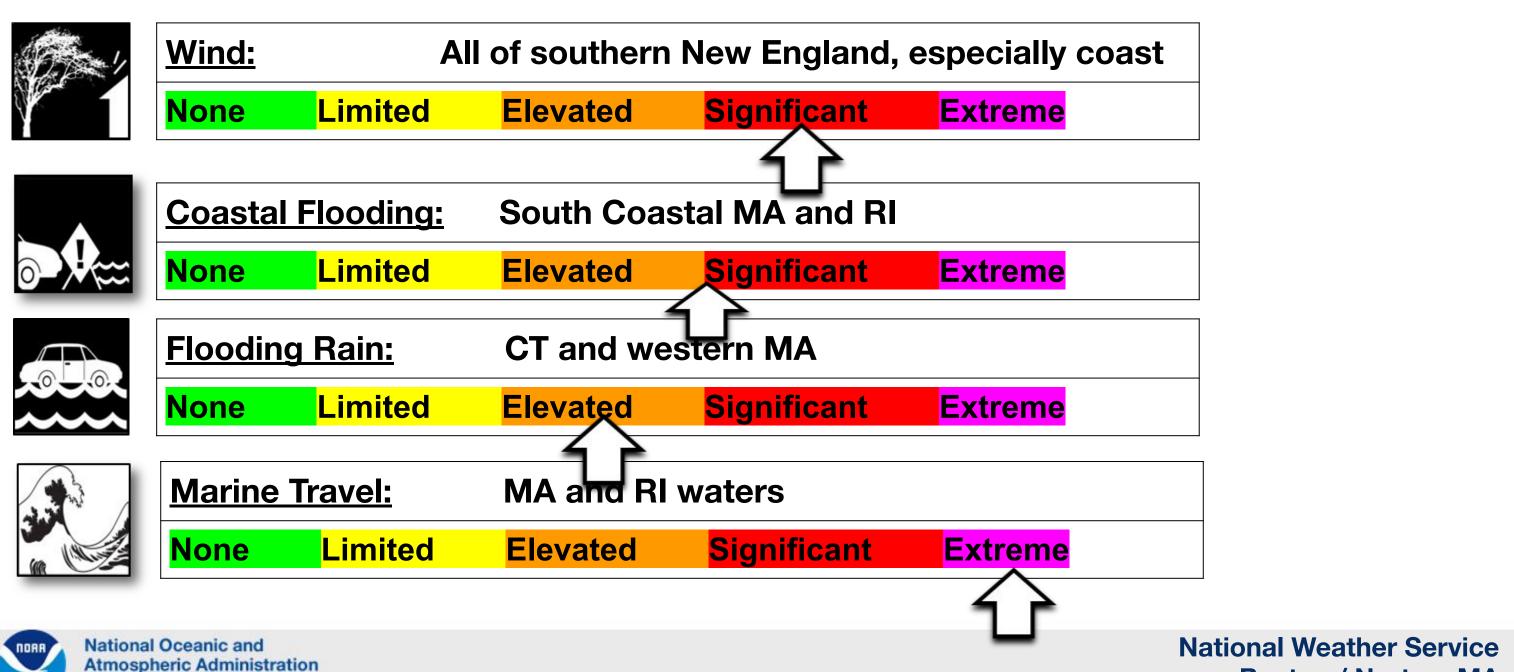
### ht Sunday nday

### evening Monday night



U.S. Department of Commerce

# Summary of Greatest Impacts



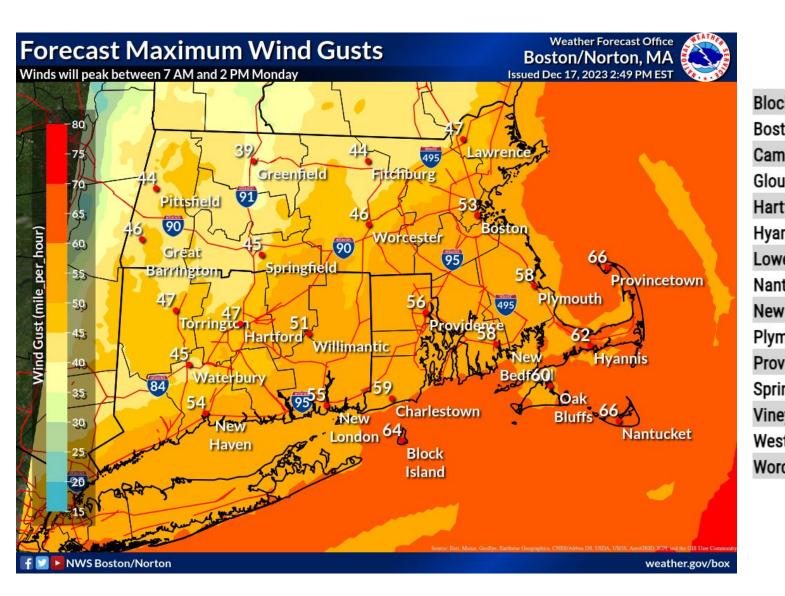
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# **Boston / Norton, MA**



# Max Wind Gusts

### Wind Gusts will peak Monday Morning



#### Maximum Wind Gust Forecast (mph)

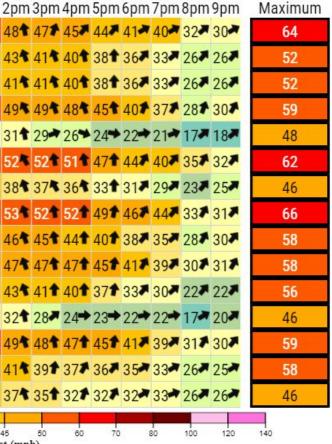
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ton	31	365	40	45	48	52	49	47	46	44	4
nbridge	31	365	40	45	48	52	49	47	46	44	4
ucester	385	43	49	54 <sup>r</sup>	58 <b>%</b>	59®	56*	54*	53*	51*	4
tford	37	40	45	48	46	44	40	384	35*	32*	3
nnis	41	46	54 <sup>®</sup>	58 <b>*</b>	60	62	59*	56*	54*	52*	5
ell	305	33	38	43	46	445	415	41	40	40	3
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ngfield	35	39	43	46	43	445	40	395	374	364	3
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Arrow designates the direction the wind is blowing towards. Ex. An arrow pointing to northwest is a "southeast" wind, blowing from SE to NW.



### December 17, 2023 3:09 PM

on



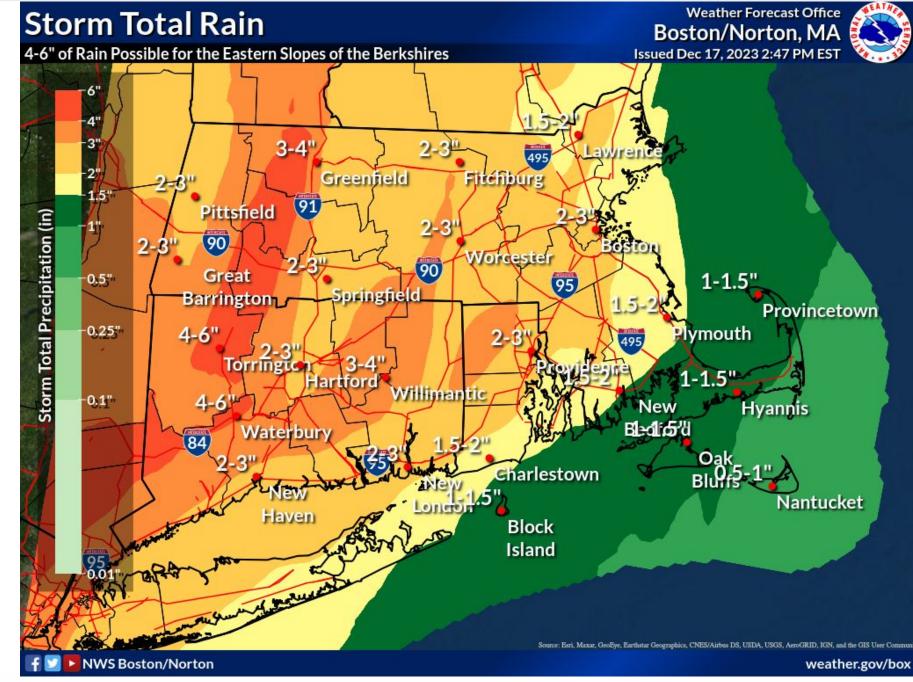
t (mph)

er the period beginning at the time shown.

### **Boston / Norton, MA**



# **Forecast Rain Totals**



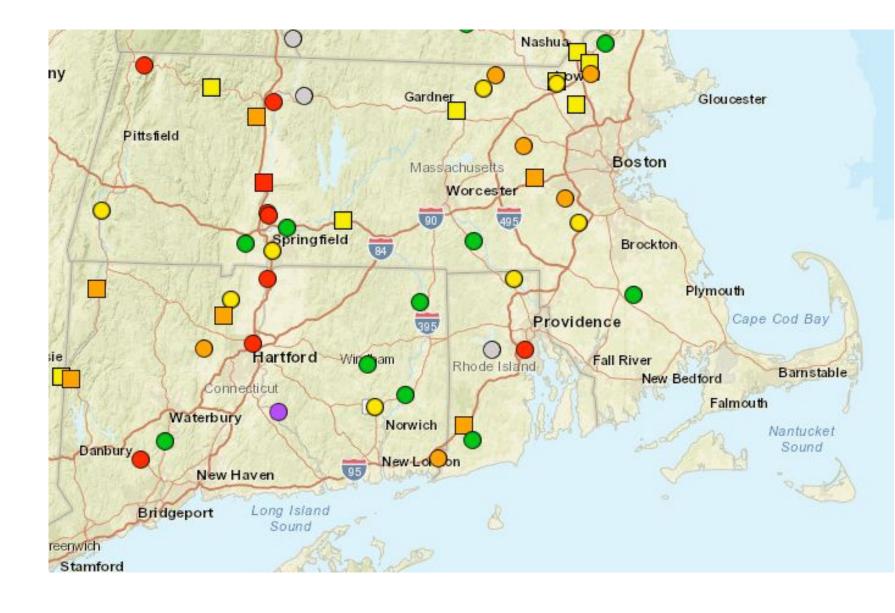


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# **River Flood Outlook**



- possible
- •

**Greatest Risk for Moderate River** Flooding is in the CT River Valley Moderate Flooding possible for the **Pawtuxet River in Cranston** Extent and level of flooding is dependent upon rainfall amounts

Map Legend Below

	nance of Exceedance	5 Y 1 - 1 - 1
30%	Level	70%
0	Action	
0	Minor Flood	
	Moderate Flood	
0	Major Flood	
= less than	30% chance of reaching A	ction leve
O = no c	ritical levels defined for this	s point



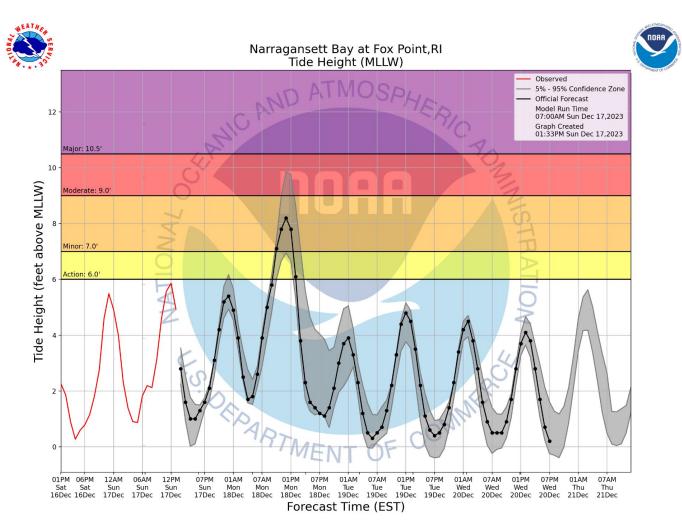
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### Minor to Moderate river flooding is



# **Coastal Flooding**

## **Total Water Level Forecast: Providence**



**Minor:** flooding less than one foot deep Moderate: flooding 1 to 2 feet deep



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

**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 coast and Essex County



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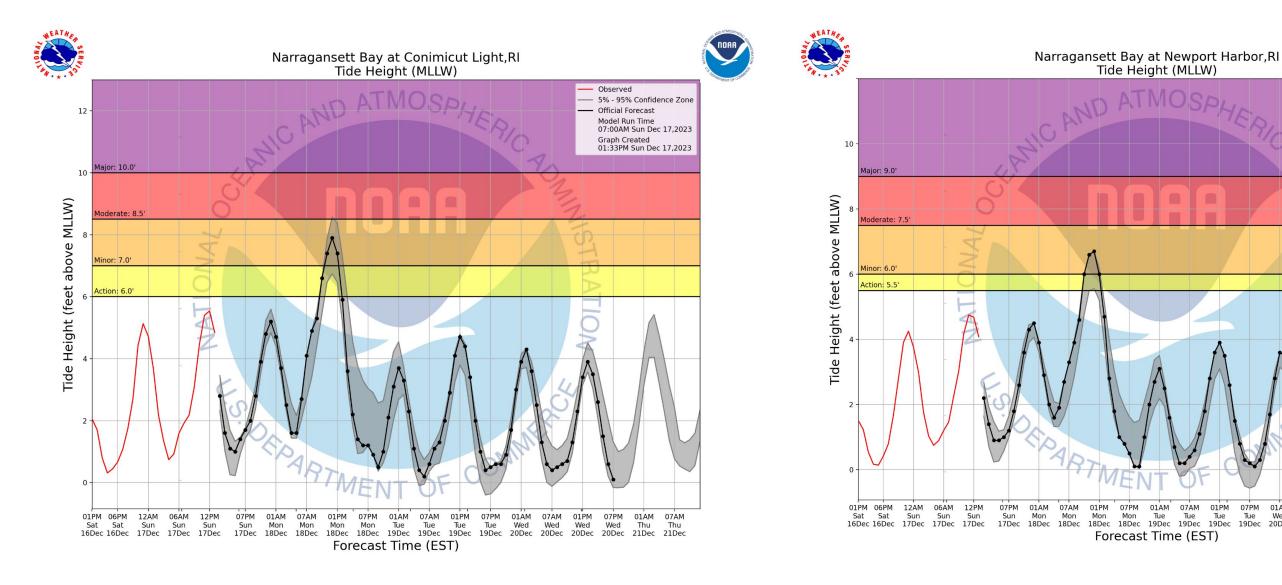
Moderate



# **Coastal Flood Forecast**

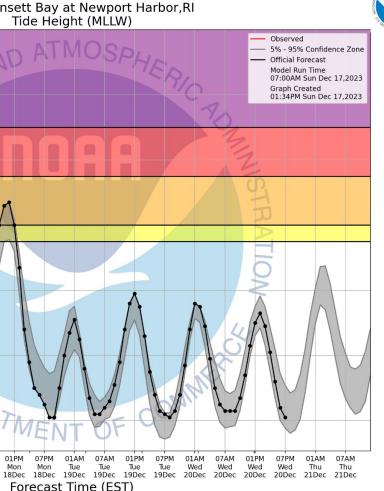
High Confidence in impacts from Minor Coastal Flooding with potential Moderate Coastal Flooding in Narragansett Bay

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





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# **Threat Event Summary**

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

# What:



**Downed trees/power lines from** 40-65 mph winds, strongest coast



likely



Minor to moderate coastal flooding, especially along **Narragansett Bay** 



vessels Sun evening through Monday

<u>Where:</u> All of southern New England (CT, MA, and RI)

## <u>When:</u> Overnight Sunday into Monday



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

# **Dangerous conditions for marine**



# **Contact and Next Briefing Information**

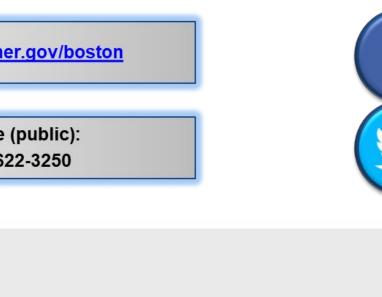
### **Next Briefing:**

If necessary, 6 AM Monday

**Disclaimer:** The information contained within this briefing is time-sensitive, do not use after 6 AM, Monday, December 18.











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