

Weather Briefing

For Southern New England

Decision Support Briefing #3

→ As of 4 AM Tuesday, January 9th 2024

NEW Important Updates

- → Expanded High Wind Warning to Cape Ann, interior southeast MA, as well as Bristol and Eastern Kent Counties in RI
- → Wind Advisory expanded to include northeast CT, northern RI, as well as interior MA
- → Issued a Coastal Flood Watch for eastern MA, including the islands
- → Storm Warnings for all MA and RI coastal waters

Hazards





January 9, 2024 3:20 AM





Main Points

Hazard	Impacts	Location	
Damaging Wind	Potential for downed trees/power lines & power outages Hazardous travel	I-95 corridor to the coastline (including the Cape & Islands)	W May im
Flooding/ Rainfall	Potential for significant street flood & river/stream flooding	All of southern New England, except for Cape Cod & the Islands	W River flo late
Marine	Dangerous sea conditions for vessels	All waters	V
Coastal Flooding	Minor to moderate flooding on coastal roads	Both south & eastern coastal waters	Wedne



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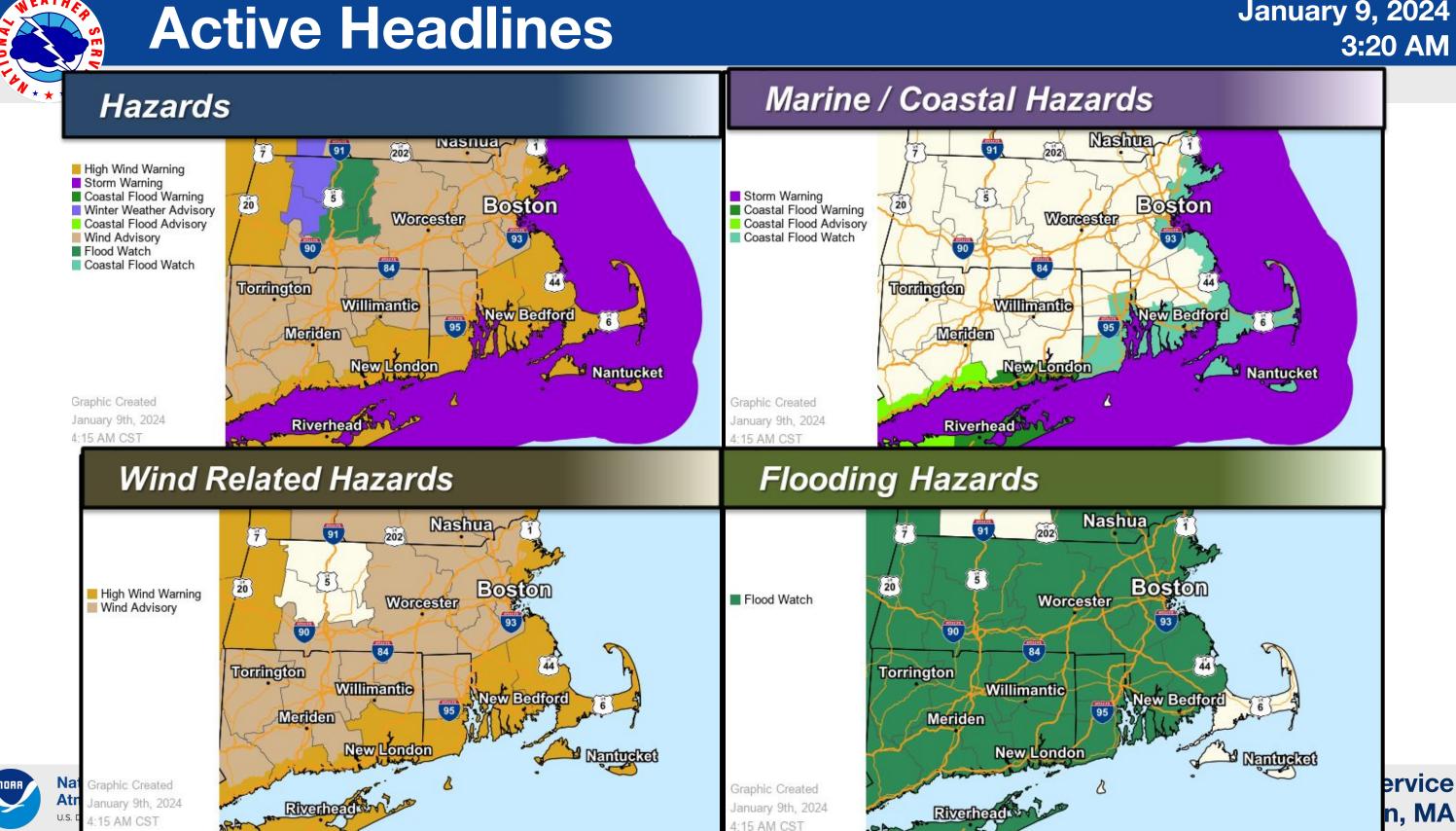
Timing

Tonight into Wednesday AM npact Wednesday AM commute

Tonight into Wednesday AM loods may linger until ter into this week

Tonight into Wednesday AM

esday AM High Tide



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Summary of Greatest Impacts

~~~					
			I-(	95 corridor to the coastlin	e
Wind	4 Winds	Little to None	Minor	Moderate	Major
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			All of southern New	w England, except for Cap	e Cod & the Island
	Flooding Rain	Little to None	Minor	Moderate	Major
				1	1
				All waters	
	Marine	Little to None	Minor	Moderate	Major
					<u>ن</u> ک
				Both coastlines	
	Coastal Flooding	Little to None	Minor	Moderate	Major
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# **Expected Snowfall Forecast**



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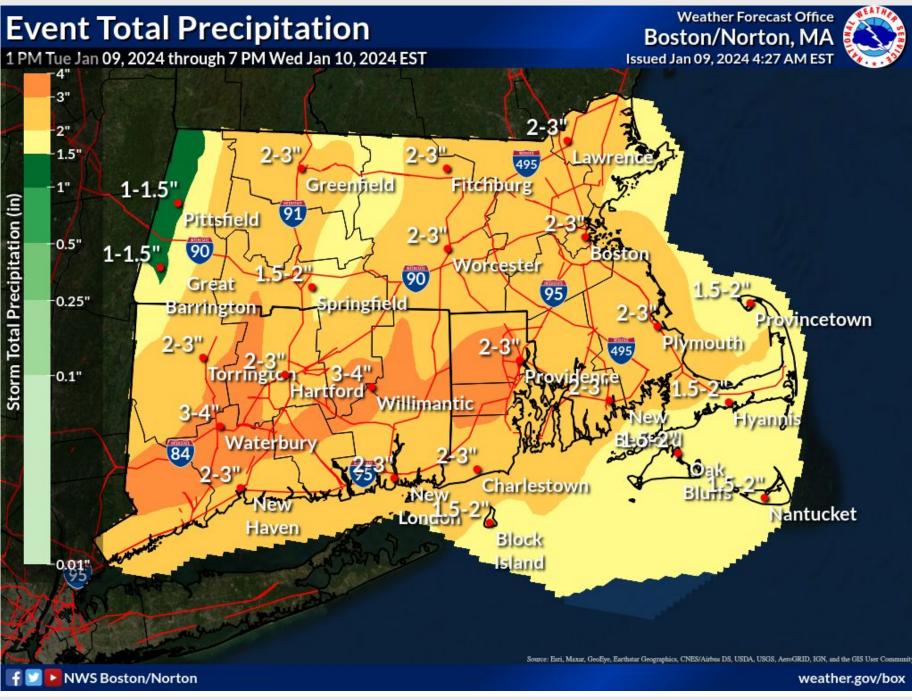
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### A burst of accumulating snow over the higher elevations late Tuesday into Tuesday evening

# Snow changing to all rain by midnight



# **Expected Rainfall Forecast**



- morning
- - flooding



National Oceanic and Atmospheric Administration

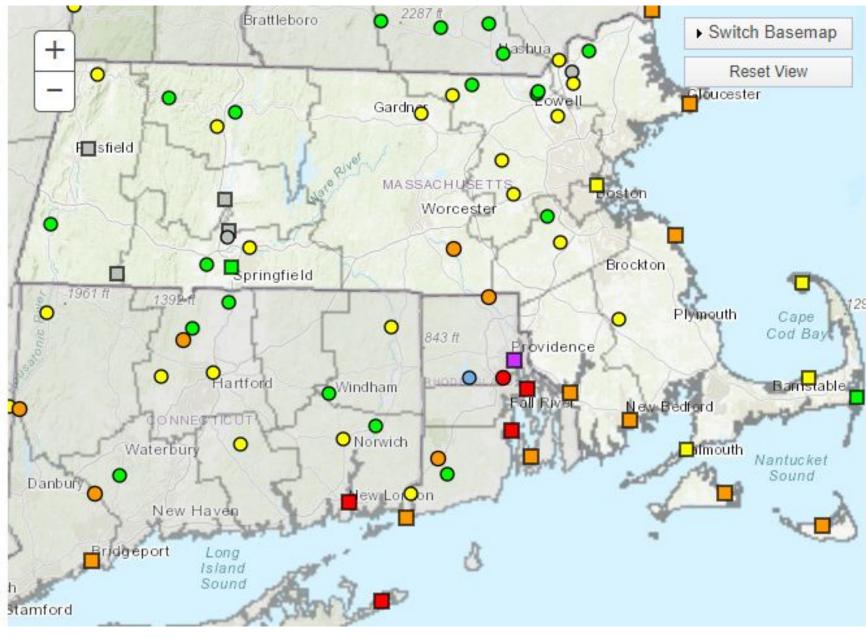
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Rain will fall over an 18 hour period - beginning late Tuesday afternoon, ending mid Wednesday Heaviest during the overnight hours Snow/Ice clogged drainage will exacerbate roadway



# **River Flood Outlook**



Initial concerns for: Blackstone River, Pawtuxet River, Wood River, Farmington River, Housatonic River

Quicker responding rivers reaching flood stage Wednesday. Slower ones possibly Thursday

Uncertainty until rainfall and snowmelt amounts are known

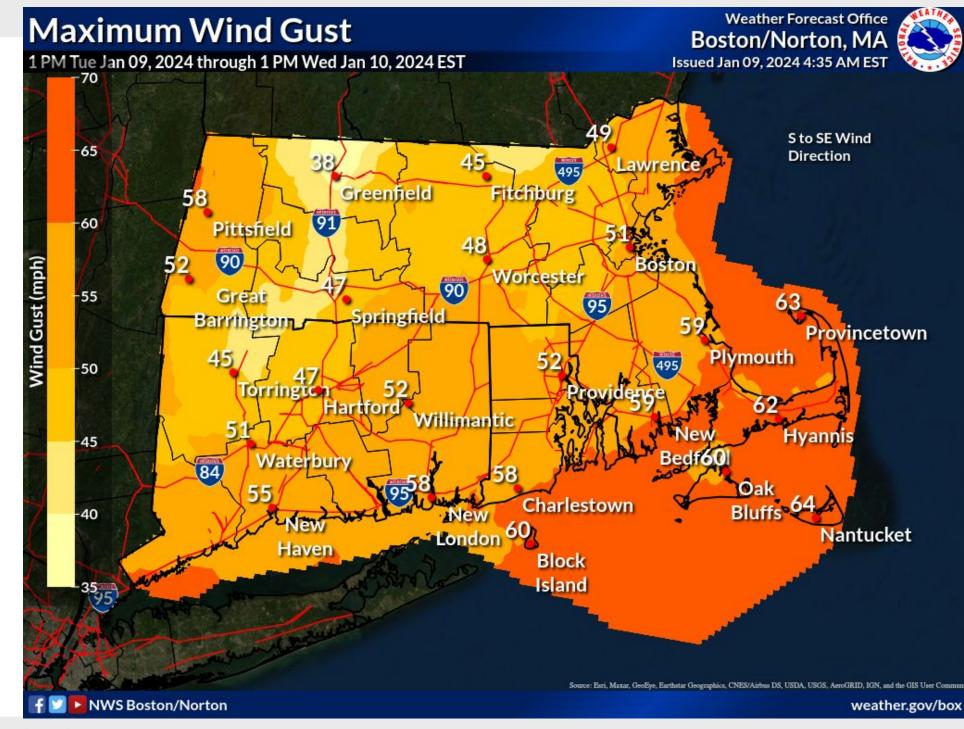
Circles = 30% chance of exceeding level Squares = 70% chance of exceeding level

30%	Level	70%
0	Action	
0	Minor Flood	
0	Moderate Flood	
0	Major Flood	





# **Maximum Wind Gust Forecast**





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# Wind Gust Forecast

			M	axir	nun	n W	ind (	Gus	t Fo	rec	ast	(mp	h)				
			1/	9						1/	10	5 - S	Ċ.			1/11	
			Tu	le						W	ed					Thu	
	6am	9am	12pm	3pm	6pm	9pm	12am	3am	6am	9am	12pm	3pm	6pm	9pm	12am	Maxim	um
Boston	5	6*	95	16	29	40	47 <b>%</b>	51	49	401	32	25	29	28	23	51	
Gloucester	<b>9*</b>	8#	13	21	36	49 <b>%</b>	61 ^m	62	59	47	367	31-	31-	29	26	62	
Hartford	6	104	17	25	36*	46	48	47	381	31	30-	28	24	21-	18-	48	
Hyannis	7♥	12	15*	22	36	49	60	63	60	497	397	37	36	28	24	63	
Lowell	3-	6	12	15	26	39	45	47	43	357	307	25	24	21-	18	47	
Nantucket	7*	12	16	23	36	48	59®	64	61	52*	41	43	41-	31-	26	64	
New Bedford	6#	12	16	23	37	52 ⁻	58®	61	551	46	397	33	32	29	25	61	
New Haven	5	8*	18	314	43	51	55*	44	28	30-	33	33-	30-	23	21-	55	
Newport	7*	10	16	25	40	52 <b>*</b>	58®	61	54	44	387	36	33-	28	24	61	
Pittsfield	5	16	23	36*	51*	58	58	46	297	23	26	28	28	26	22	58	
Providence	3∳	7*	13	18	31	45	49	52	47 <b>1</b>	397	33	29	26	23	18-	52	
Springfield	6	94	17	25	36*	45	48	45	37🕇	31	30-	26	25	23	21-	48	
Worcester	5*	9%	14	21	30*	39*	45	48	41	357	33	29	29	28	23	48	
10		15		20	М	25 [aximu	m Wind	30 Gust	Forec	35 ast (m)	ph)	40		45		50	60

- Strongest wind gusts generally Ο
  - direction
- Breezy (gusts 25-35 mph) Wednesday

Created: 4 am EST Tue 1/9/2024 | Values are maximums over the period beginning at the time shown.



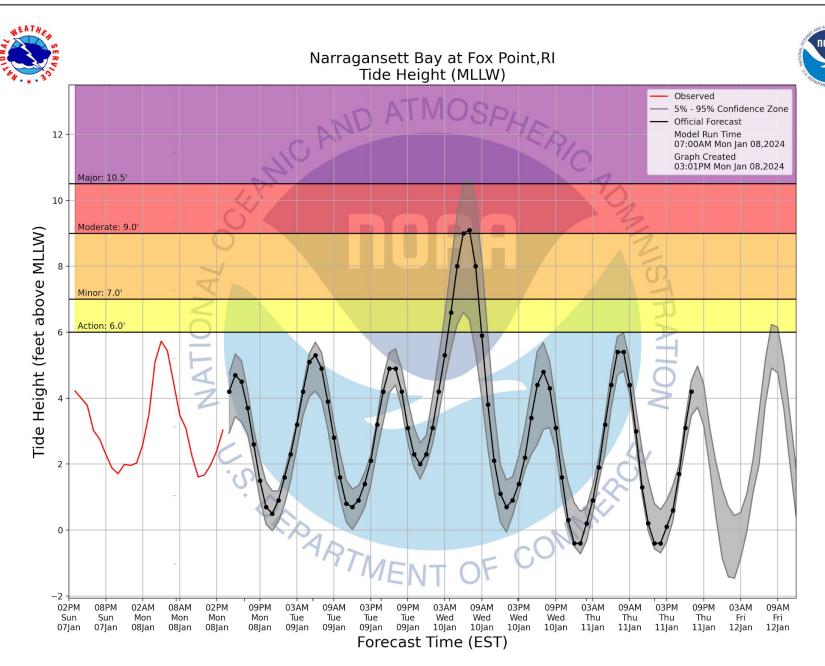
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## 9 pm Tuesday to 9 am Wednesday Will come from a southeasterly

# southwest winds through the rest of



# **Coastal Flooding**



Minor flooding during Wednesday morning (6 am-8 am) high tide Especially south coastal MA/RI and portions of Martha's Vineyard Storm surge of 2 to 4 feet expected Could be very similar to the December 18th event

Low chance of Moderate flooding on upper end of Narragansett Bay including Providence - timing of highest surge would need to be a few hours later

Significant beach erosion likely again on south facing ocean beaches

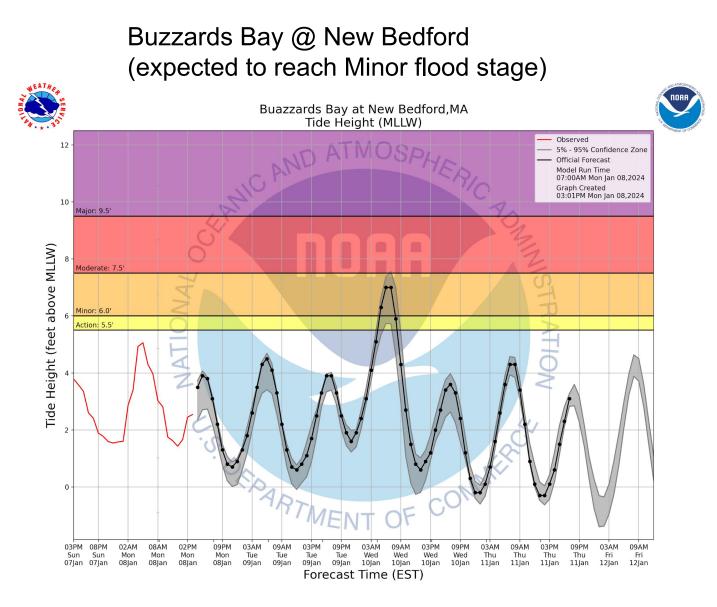
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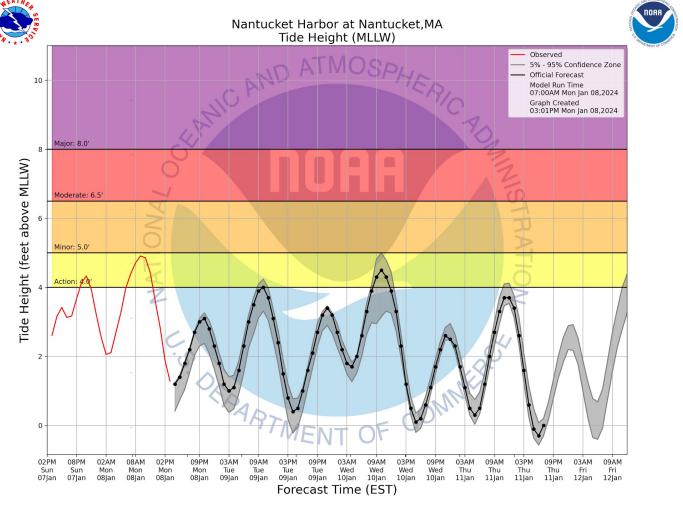
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# **Coastal Flooding**



### Nantucket Harbor (expected to stay below flood stage)





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# **Post Storm Outlook**

- Dry and quiet weather later on Wednesday through Friday
- A bit breezy late Wednesday through Thursday
- Seasonable temperatures
- Another system takes aim at us late Friday into Saturday

		1/	11			1/	12		1/13				1/14				1/15			
		Th	าน		Fri				Sat				Sun				Mon			
	12am	6am	12pm	6pm	12am	6am	Maximum													
Boston	0	0	0	0	0	0	15	55	85	85	60	20	5	5	5	10	10	10	87	
Gloucester	0	0	0	0	0	5	20	65	100	95	40	20	5	5	5	10	15	20	98	
Hartford	0	0	0	0	0	5	45	85	100	85	40	10	5	5	5	10	15	20	98	
Hyannis	0	0	0	0	0	5	20	65	95	90	35	15	5	5	10	15	20	20	97	
Lowell	0	0	0	0	0	5	20	70	100	95	45	20	5	5	5	10	15	20	100	
Nantucket	0	0	0	0	0	5	20	70	95	90	40	15	10	5	10	20	20	20	96	
New Bedford	0	0	0	0	0	5	20	75	100	90	30	15	5	5	5	10	15	20	98	
New Haven	5	5	0	0	0	0	15	80	100	100	50	10	5	5	5	5	10	20	98	
Newport	0	0	0	0	0	5	25	75	100	85	30	10	5	5	5	10	15	20	98	
Pittsfield	5	0	10	10	0	5	10	75	90	90	75	35	10	10	10	10	15	15	92	
Providence	0	0	0	0	0	5	25	75	100	90	30	10	5	5	5	10	15	20	99	
Springfield	0	0	0	0	0	5	35	80	100	90	45	15	5	5	5	10	15	20	99	
Worcester	0	0	0	0	0	5	25	75	100	90	45	20	5	5	5	10	15	20	100	

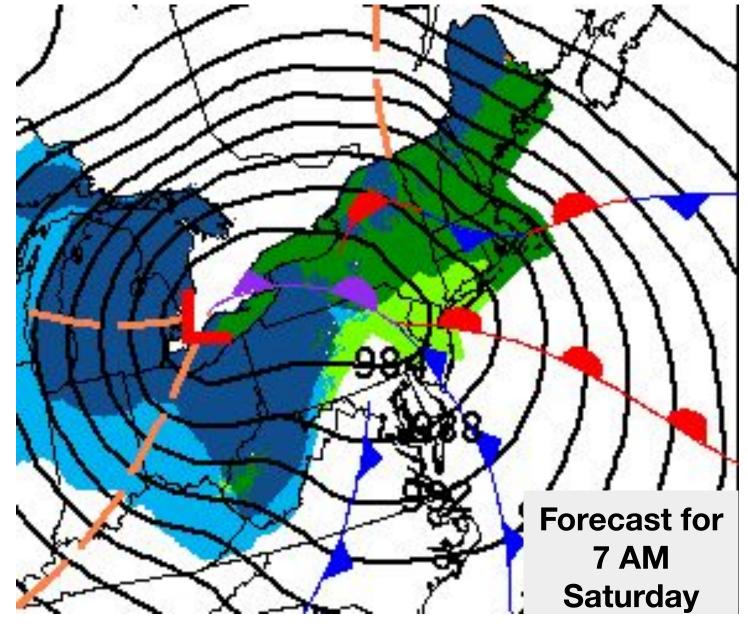
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# **Next Potential Storm: Fri Night - Sat**



Another storm is expected to track to our west Saturday

This would be another "warm" storm with potential for:

- Flooding Rain
- Strong / Possibly Damaging Winds
- Minor Coastal Flooding (south coast)



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# **Contact and Next Briefing Information**

For NWS Boston/Norton County Warning Area



https://www.weather.gov/box/emhome

# **Next Briefing**

By 6 PM, Tuesday

Method: Email  $\rightarrow$ 

# **Disclaimer**

- Information contained in this briefing is time-sensitive  $\rightarrow$
- Do Not Use After: 6 PM, Tuesday January 9th  $\rightarrow$

# **Contact Information**

### Web

weather.gov/box  $\rightarrow$ 

## Phone

(508) 622-3250  $\rightarrow$ 

## Email

box.operations@noaa.gov  $\rightarrow$ 

### **Facebook**

www.facebook.com/NWSBoston  $\rightarrow$ 

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