

# Multi-Faceted Winter Storm Saturday Night – Sunday Night

**National Weather Service**  
**Decision Support Briefing # 6**  
**Saturday, January 19, 2019 4:42 AM**






## What Has Changed?

- ✓ Decreased snow amounts slightly
- ✓ Portion of Winter Storm Watch for Hampden and Southern Worcester counties converted to Warnings
- ✓ All other Winter Storm Watches converted to Winter Weather Advisories

## Winter Weather Related Hazards



## Main Points

Hazard		Impacts	Location	Timing
<b>Heavy Wet Snow</b>		Hazardous travel. 1-2+ inch/hour rates.	All of Southern New England, except the extreme south coast.	10 PM Sat – 7 AM Sun NW MA remains all snow through Sunday.
<b>Freezing Rain/ Sleet</b>		Hazardous travel. Scattered power outages. 0.25 to 0.5 inch icing possible.	Greatest icing in CT, northern RI, and interior E MA.	Sunday morning – early afternoon.
<b>Flash Freeze</b>		Hazardous travel. Rapid temperature drop causes quick icing of wet surfaces. Bitter cold by Sunday night.	All of Southern New England	Early Sunday afternoon – Sunday Night
<b>Strong Winds</b>		Some power outages, exacerbated by snow/ice.	Southern Rhode Island and Southeastern Massachusetts.	Sunday morning – Sunday afternoon.
<b>Coastal Flooding</b>		Minor to moderate coastal flooding.	Both south and east coasts, moderate flooding from Scituate to Newburyport.	Sunday Morning Also possible Monday morning in E MA.

## Summary of Greatest Impacts



### Heavy Wet Snow:

Most of Southern New England

None

Limited

Elevated

Significant

Extreme



### Freezing Rain/Sleet:

Especially Interior Southern New England

None

Limited

Elevated

Significant

Extreme



### Flash Freeze:

All of Southern New England

None

Limited

Elevated

Significant

Extreme



### Strong Winds:

Southern RI and Southeast MA

None

Limited

Elevated

Significant

Extreme



### Coastal Flooding:

Both South and East Coasts

None

Limited

Elevated

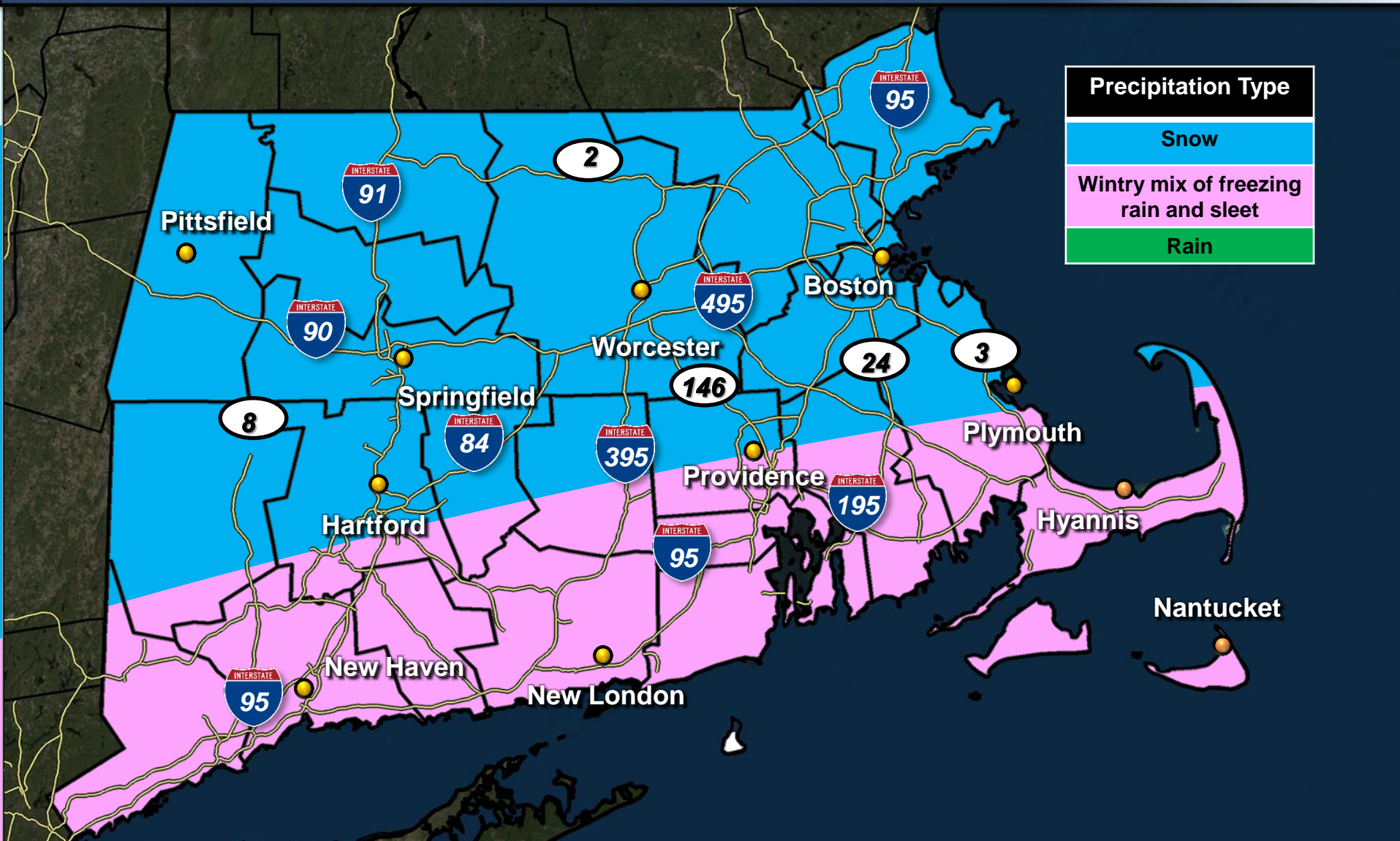
Significant

Extreme





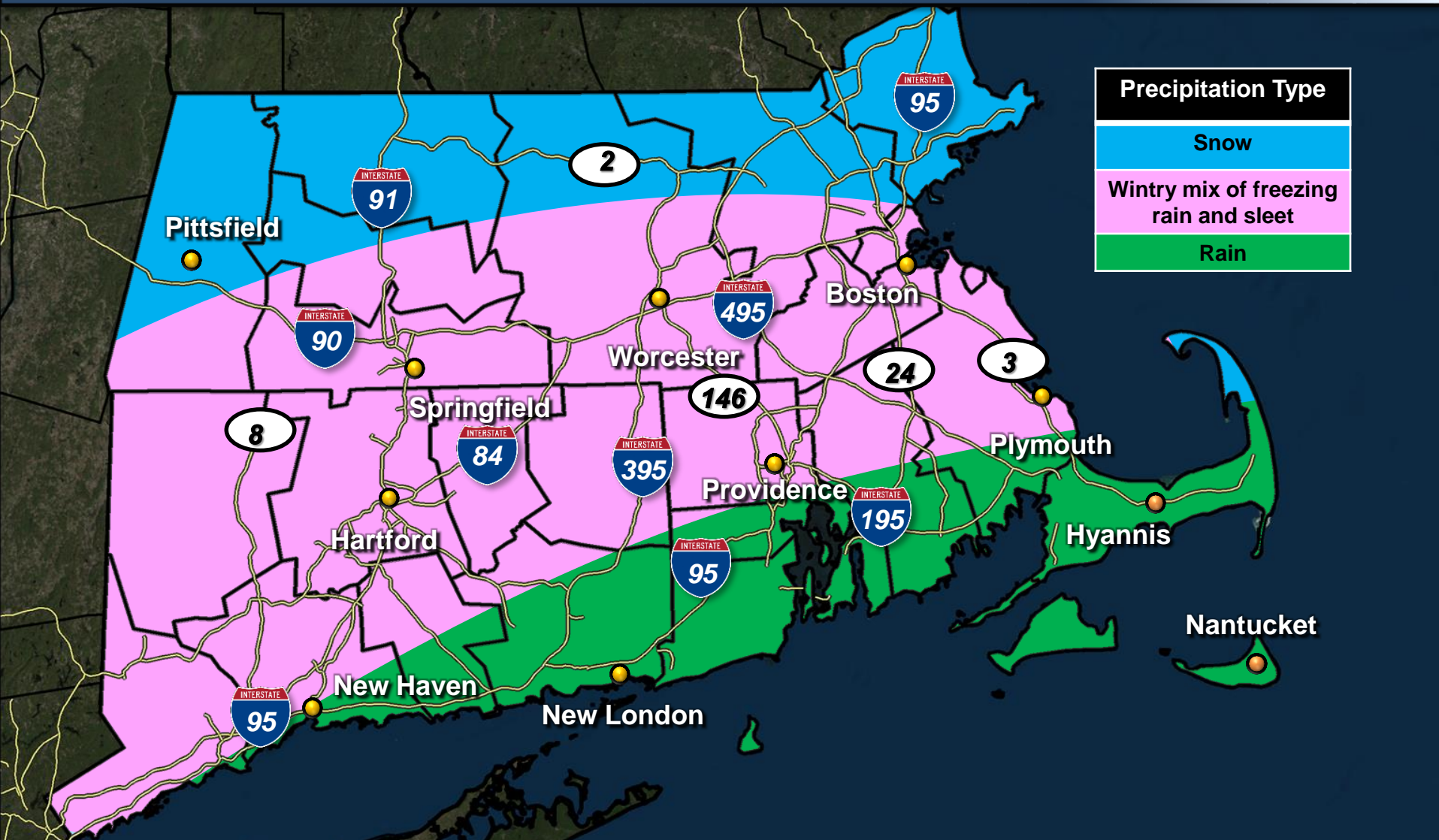
## Precipitation Type: 1 AM Sunday



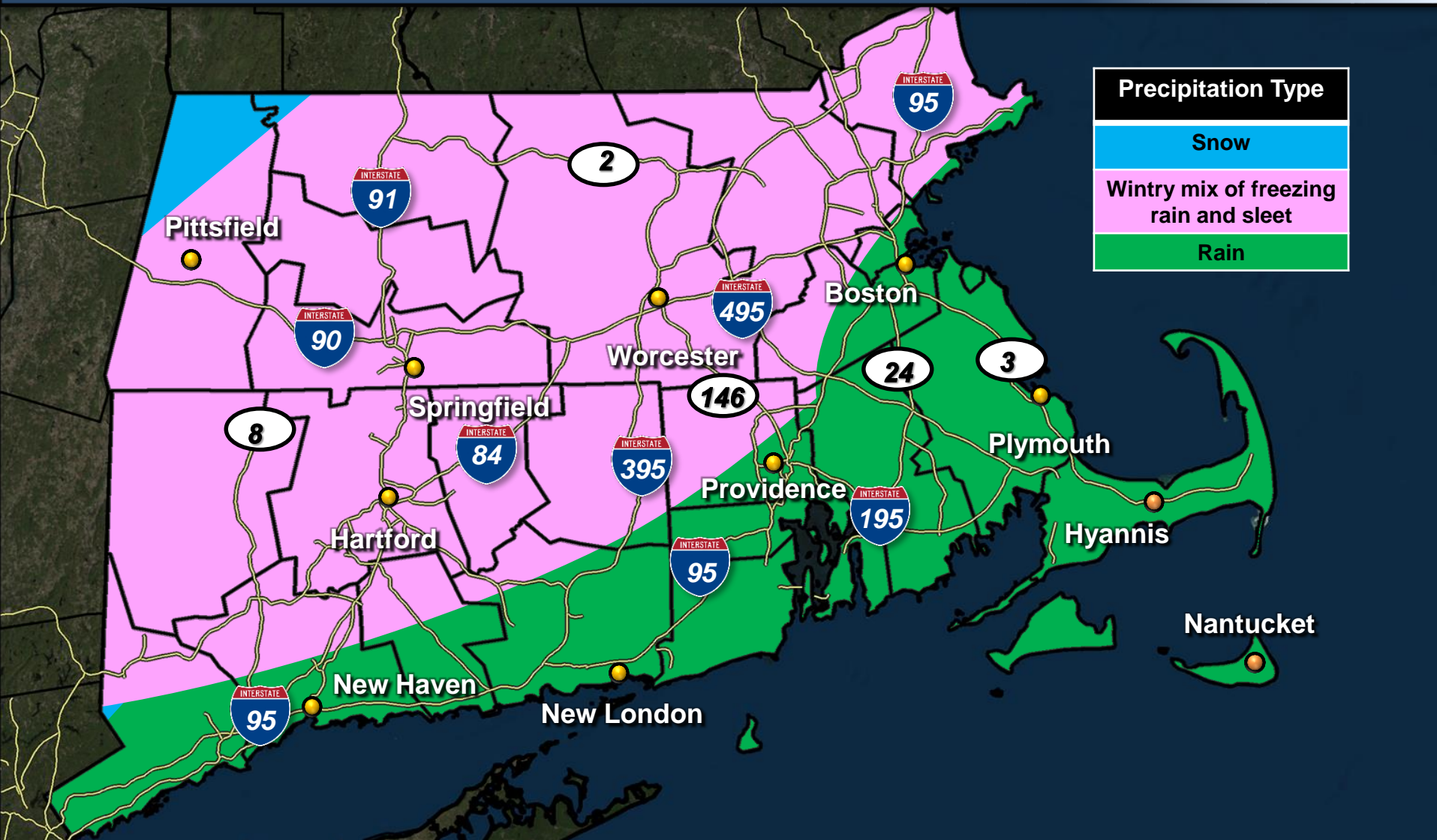




## Precipitation Type: 4 AM Sunday

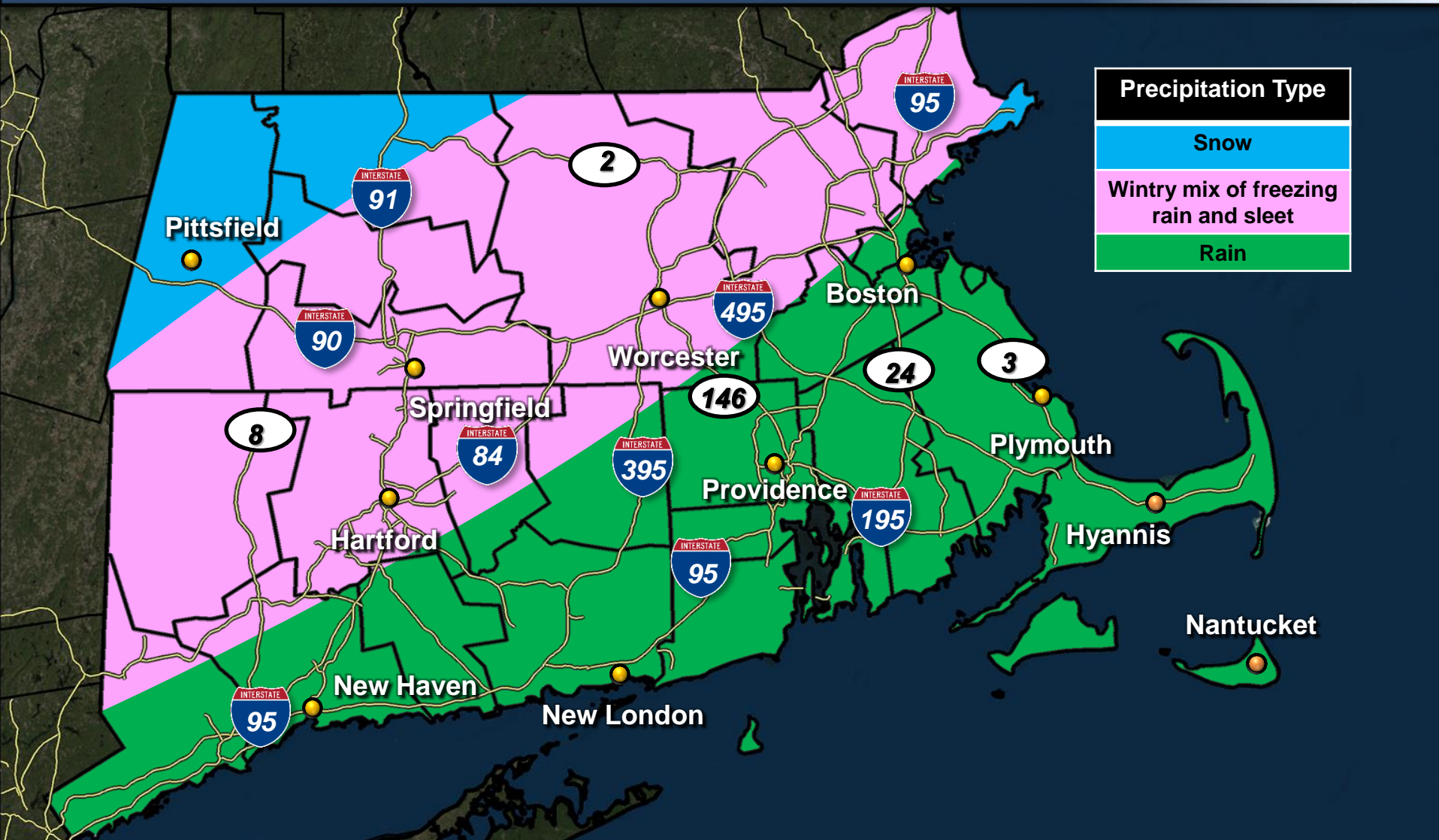


## Precipitation Type: 7 AM Sunday



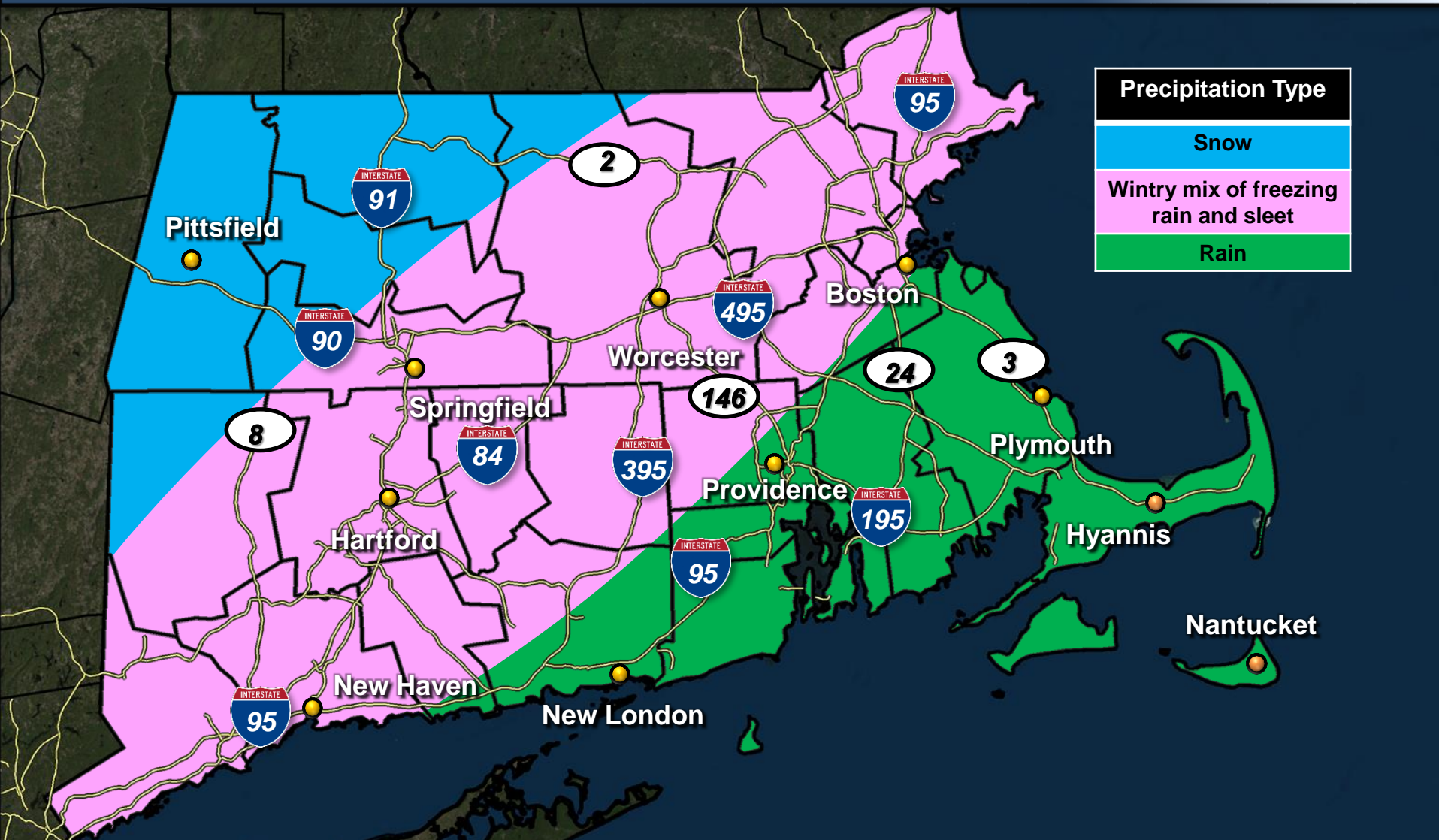


## Precipitation Type: 10 AM Sunday





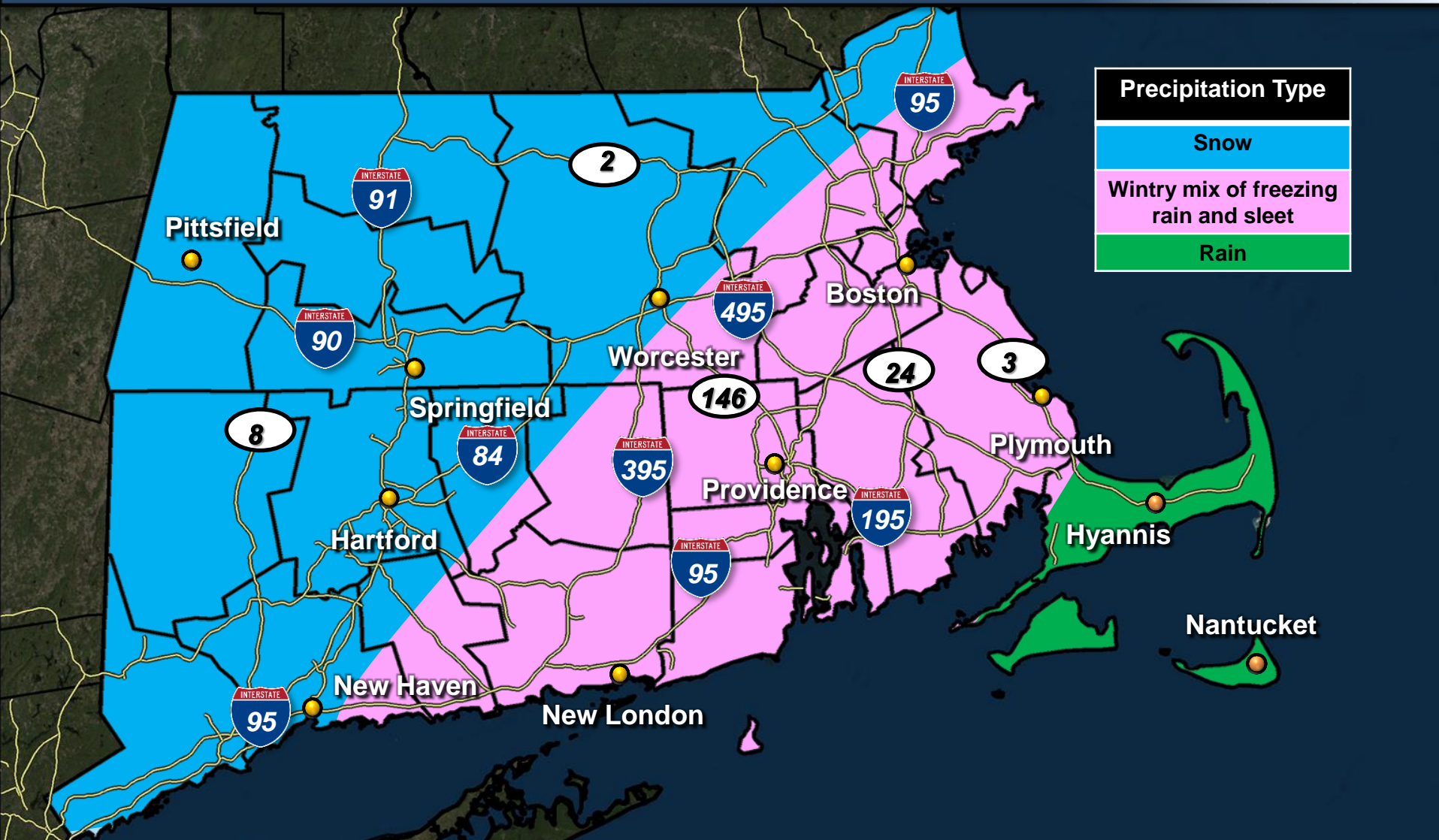
## Precipitation Type: 1 PM Sunday





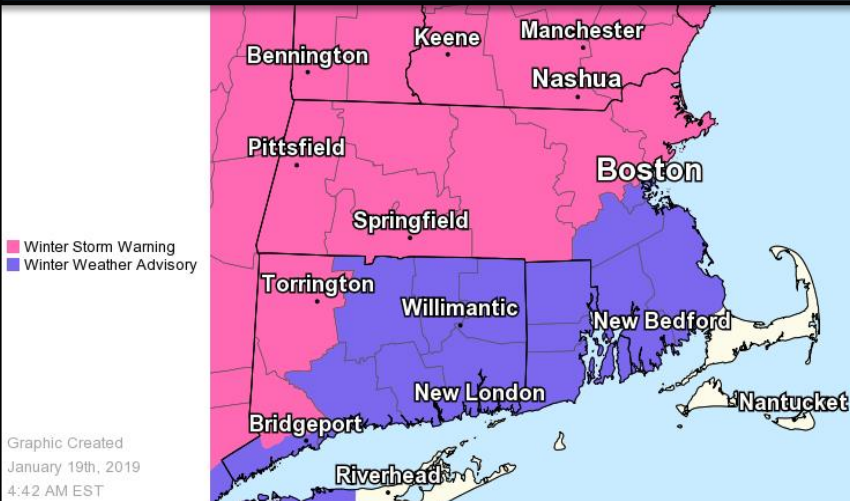


## Precipitation Type: 4 PM Sunday

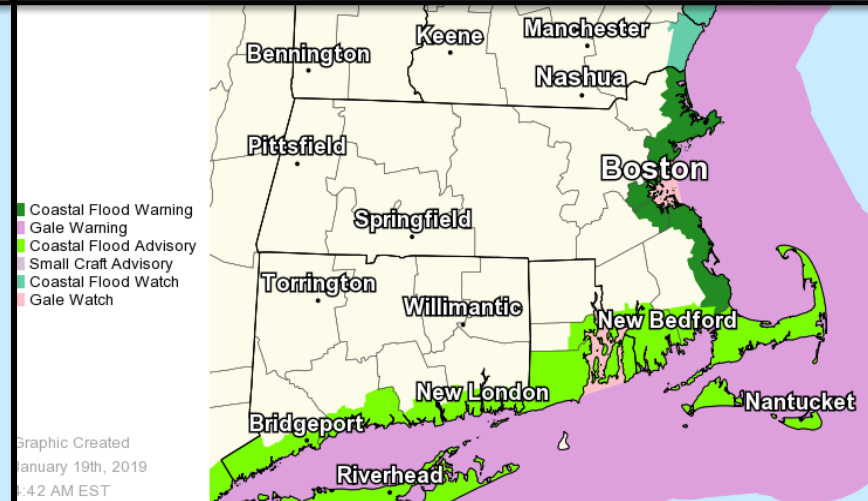




## Winter Weather Hazards



## Marine / Coastal Hazards



## Wind Related Hazards



## Flood Hazards

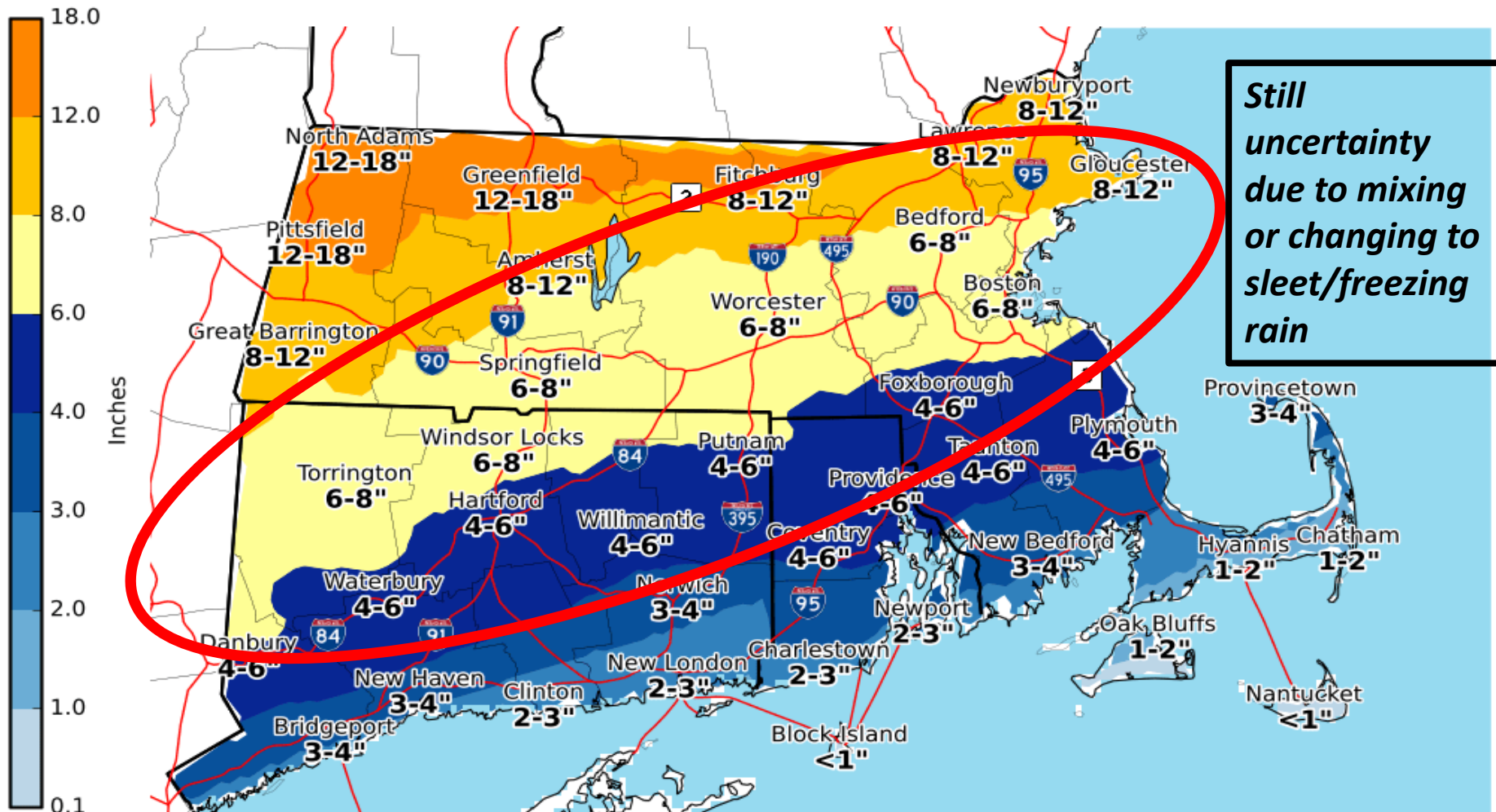




## Forecast Storm Total Snowfall

### Expected Snowfall - Official NWS Forecast

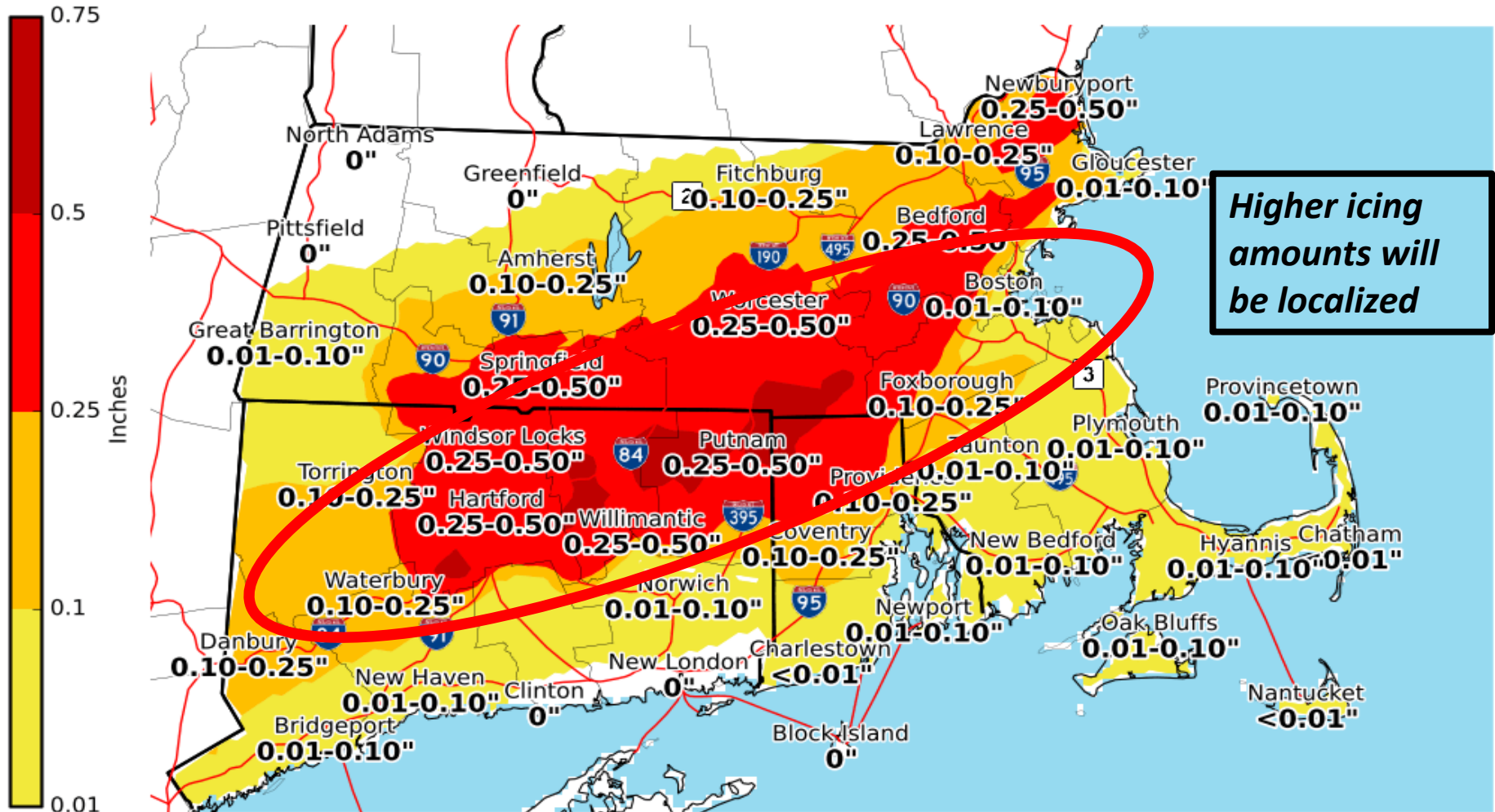
Valid: Saturday Night and Sunday





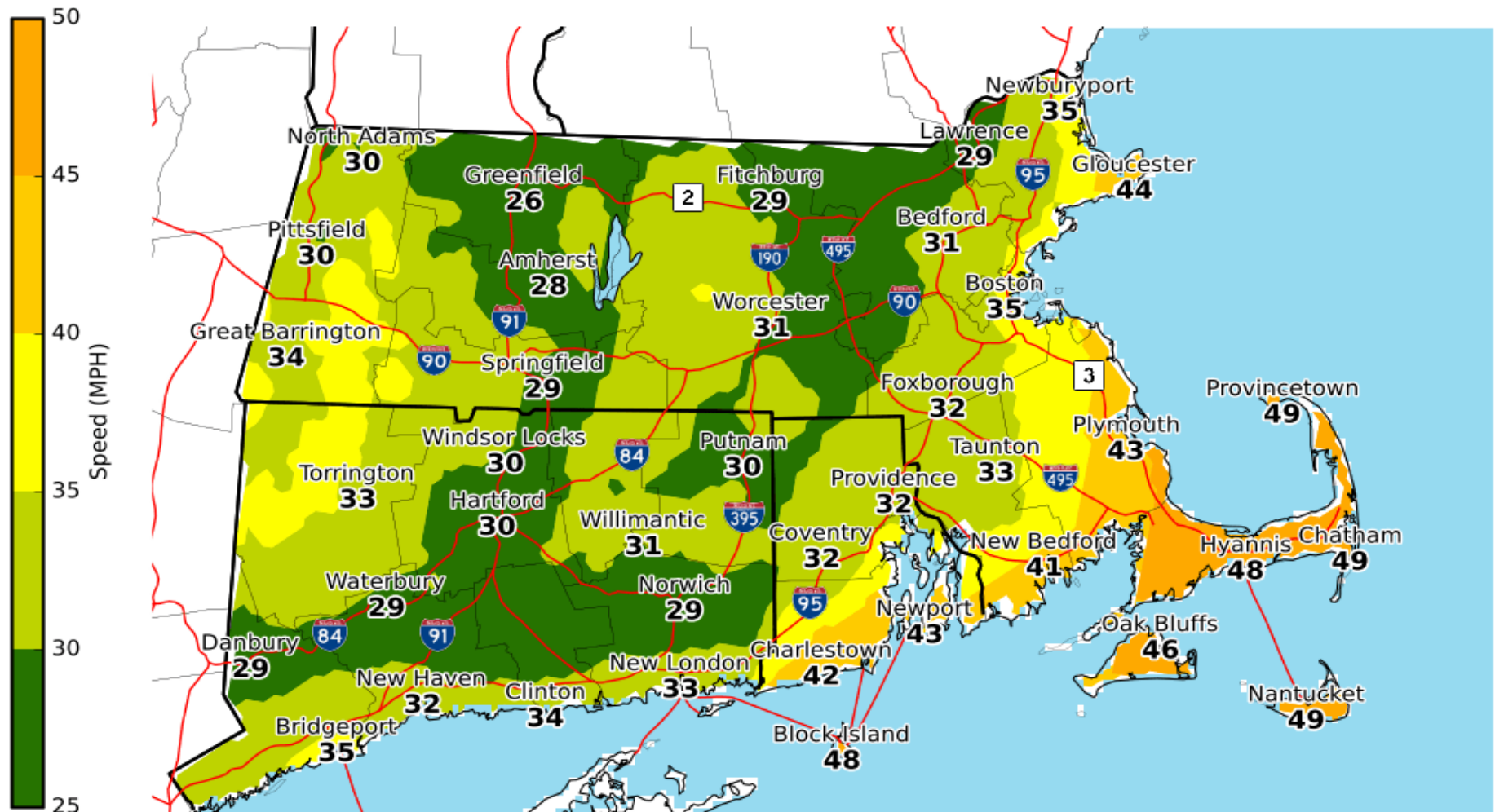
## Forecast Storm Total Ice

### Expected Icing - Official NWS Forecast Valid: Saturday Night and Sunday



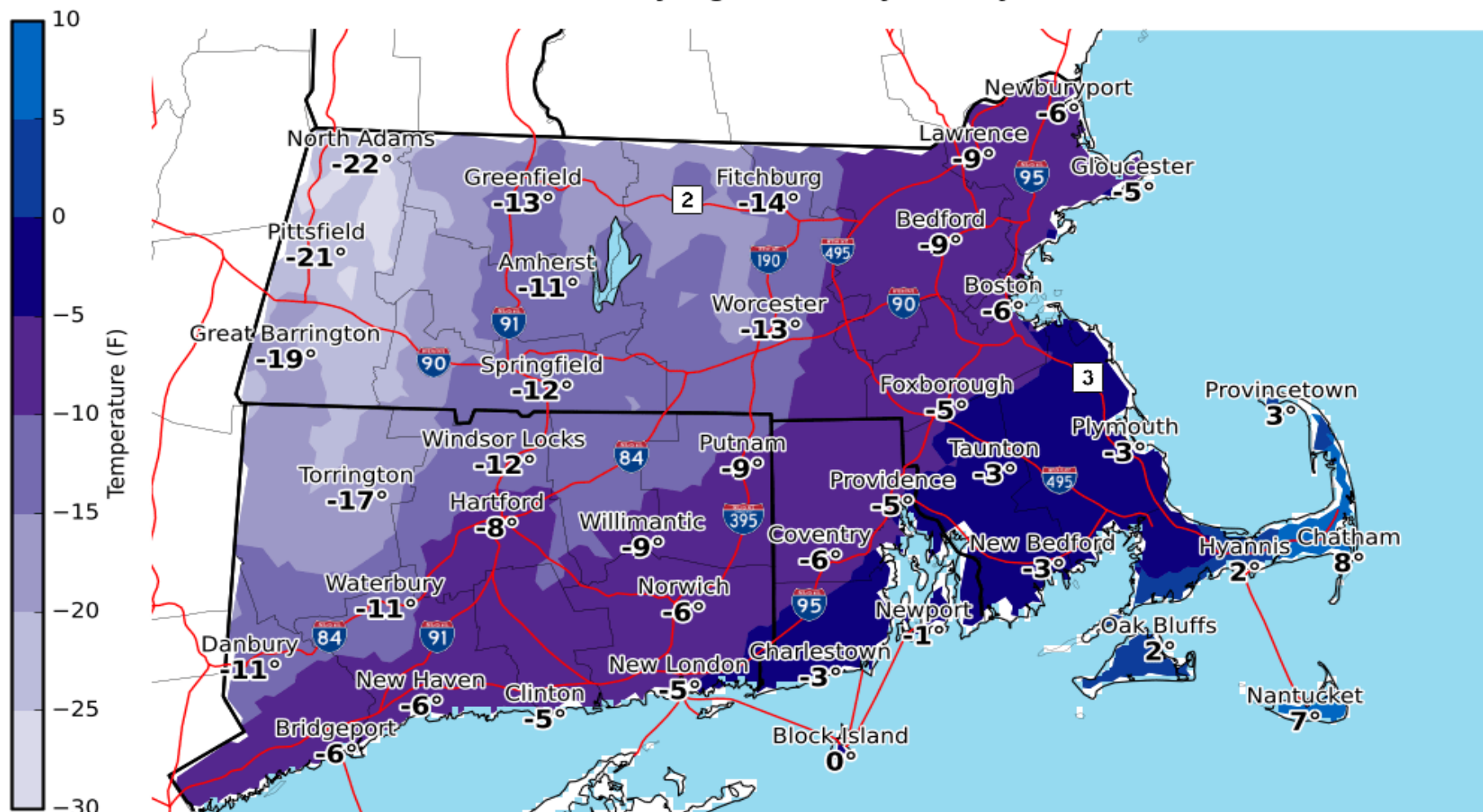
## Forecast Maximum Wind Gusts

### Max Wind Gusts (MPH) Valid: Saturday Night and Sunday



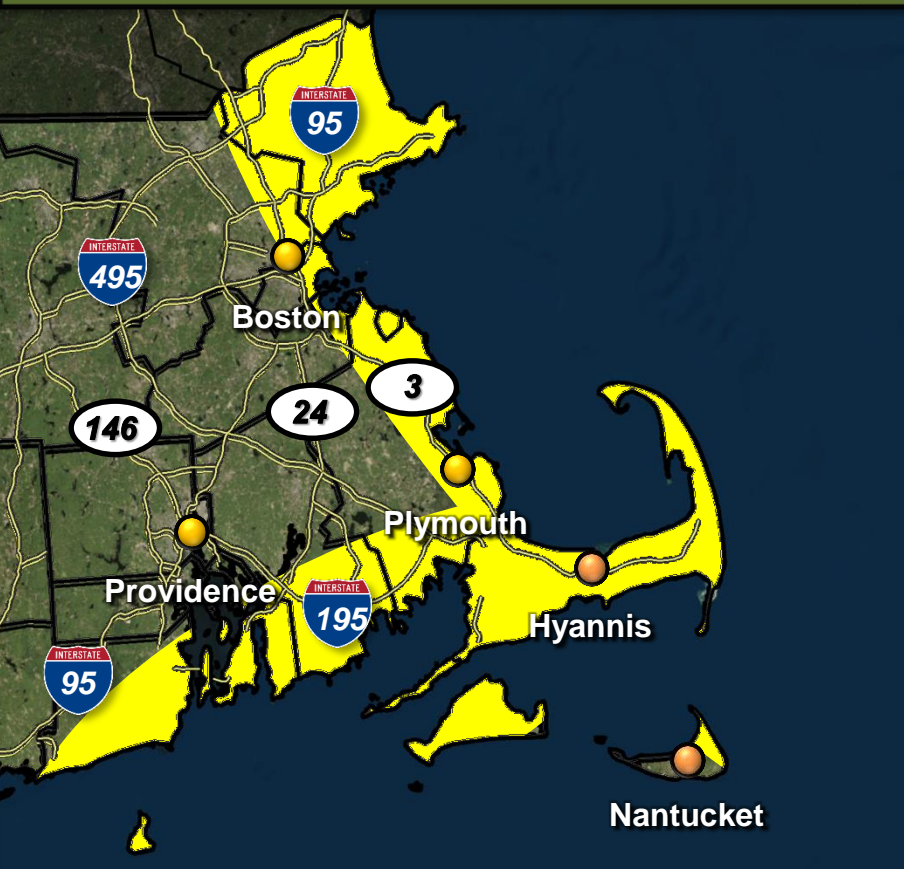
## Forecast Minimum Wind Chills

### Min Apparent Temperature Valid: Sunday Night and Early Monday





## Coastal Flooding – Surge / Inundation – Sunday Morning High Tide



### Minor to Moderate Coastal Flooding

- 1 to 3 feet of inundation above ground level in vulnerable neighborhoods.
- Some shore roads may be closed, especially from Scituate to Newburyport.
- Minor beach erosion with heavy surf.

### Timing

- Sunday morning high tide (around 7 AM in Providence and around 10 AM in Boston).
- Minor flooding also possible with Sunday night high tide around Cape Cod Bay (10 PM in Dennis).

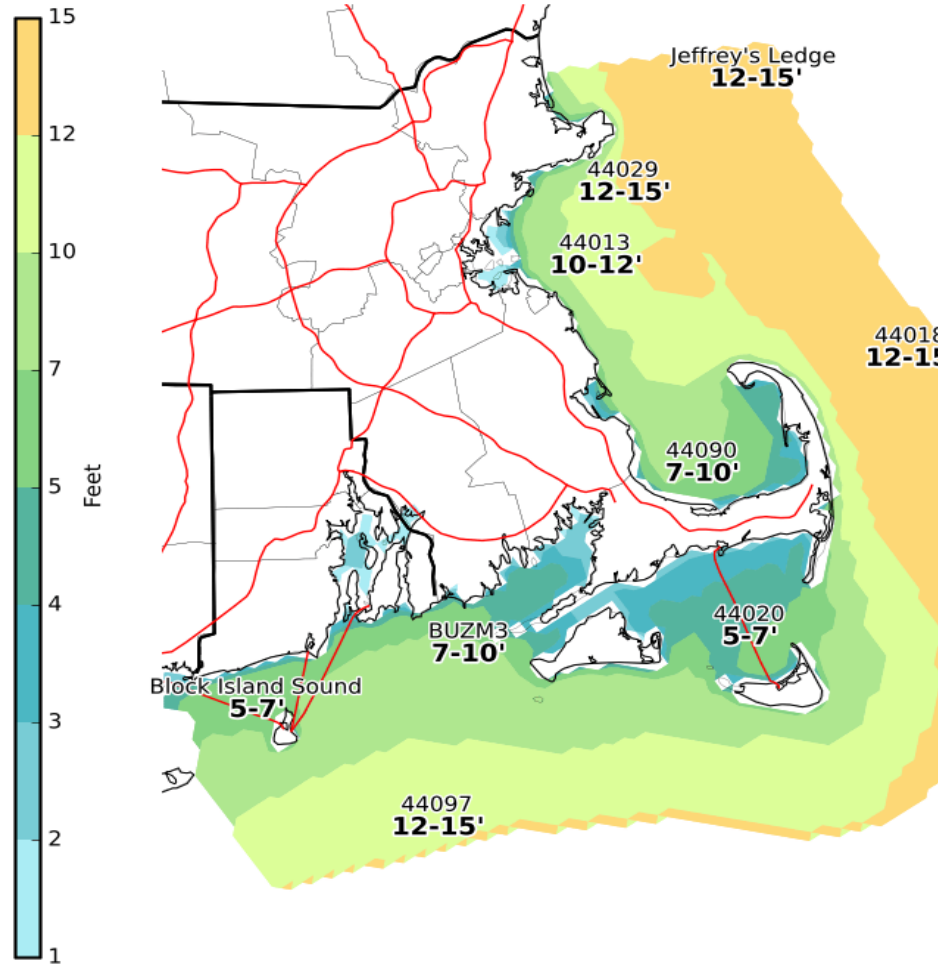
None
Minor
Moderate
Major
Extreme

	Storm Surge Threat	Potential Impacts from Storm Surge
Little to None	0 to 1 feet above ground	No immediate preparations needed. Little to no potential storm surge flooding impacts
Elevated	1 to 3 feet above ground	To be safe, prepare for the potential of limited storm surge flooding impacts
Moderate	3 to 6 feet above ground	To be safe, earnestly prepare for the potential of significant storm surge flooding impacts
High	6 to 9 feet above ground	To be safe, aggressively prepare for the potential of significant storm surge flooding impacts
Extreme	> 9 feet above ground	To be safe, aggressively prepare for the potential of devastating to catastrophic storm surge flooding impacts

## Forecast Maximum Wave Heights and Wind Gusts (in kts)

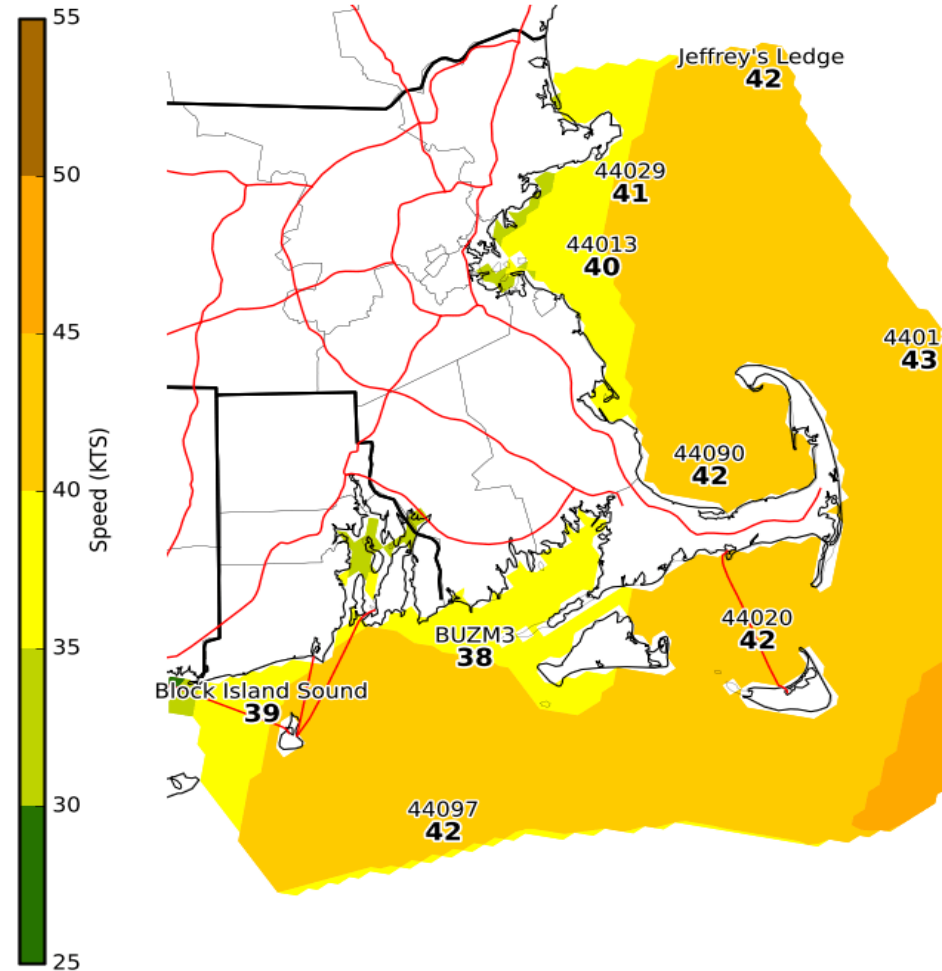
### Maximum Wave Height

Valid: Sunday and Sunday Night



### Max Wind Gusts (KTS)

Valid: Sunday and Sunday Night



## Threat Event Summary

✓ **Confidence**: High confidence for a moderate-high impact event. Low confidence on exact details/timing.

✓ **What:**



Heavy wet snow with high snowfall rates.



Strong winds exacerbates power outage risk.



Freezing Rain/Sleet with some ice accumulation likely.



Minor to moderate coastal flooding possible with Sunday morning high tide.



Flash Freeze late Sunday and Sunday night. Bitter cold follows.

✓ **Where:** All of Southern New England

✓ **When:** Saturday Night – Sunday Night. Bitter cold follows early next week.



# Contact and Next Briefing Information

## Next Briefing

**When:** 2:30 PM, Saturday, January 19<sup>th</sup>

**Method:** via conference call



[www.weather.gov/boston](http://www.weather.gov/boston)



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**Disclaimer:** The information contained within this briefing is time-sensitive,  
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