

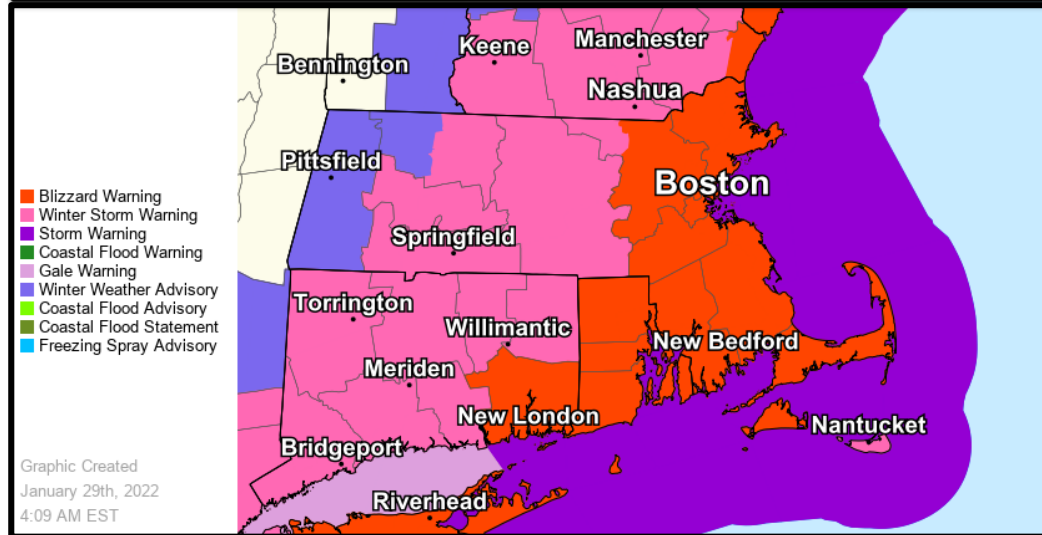
Winter Storm Saturday

National Weather Service
Decision Support Briefing # 8
Saturday, January 29, 2022 4:26 AM

What Has Changed?

- ✓ Coastal Flood Warning issued for the morning high tide
- ✓ Greater risk now for coastal flooding during the morning high tide due to earlier arrival of winds.
- ✓ Snowfall maximum shifted slightly northwest; slightly lower amounts for outer Cape Cod and Nantucket.

Hazards





Winter Weather Hazards



Marine / Coastal Hazards







Wind Related Hazards



Flooding Hazards



Main Points

Hazard	Impacts	Location	Timing
Damaging Winds 	Power outages likely	Greatest risk across eastern MA, particularly for Cape Cod and Islands	Today, especially afternoon and evening
Coastal Flooding 	Minor coastal flooding. Pockets of low end moderate coastal flooding possible	Greatest risk is along the eastern MA coast, and north-facing shores, like Nantucket Harbor and Cape Cod from Sandwich to Dennis.	Morning and evening high tide. Greatest risk now for morning high tide due to earlier arrival of winds.
Heavy Snow/Blizzard 	Dangerous travel conditions with heavy snowfall rates and visibility less than one quarter mile at times	Greatest risk across eastern MA into RI	Today into early this evening
Marine 	Rough seas and Storm Force winds	All areas, but greatest risk across the eastern offshore waters	Through tonight

Summary of Greatest Impacts



Winds: Greatest risk RI and southeast MA

None	Limited	Elevated	Significant	Extreme
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Coastal Flooding: Most likely along the east coast of MA

None	Limited	Elevated	Significant	Extreme
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Snow: Greatest risk eastern MA and RI

None	Limited	Elevated	Significant	Extreme
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Marine: All coastal waters

None	Limited	Elevated	Significant	Extreme
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Winter Storm: Through tonight

Historic winter storm for eastern New England

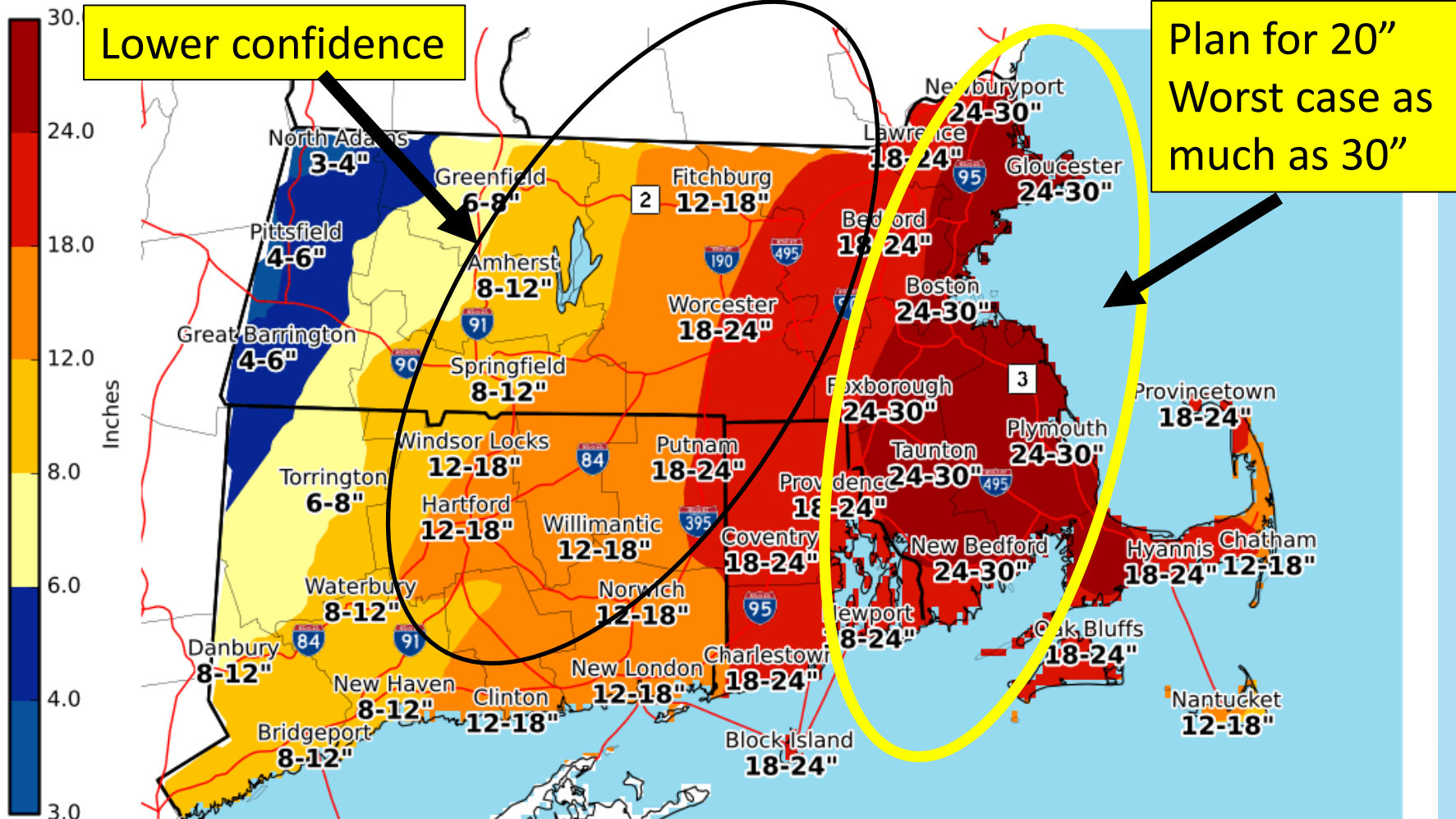
Impacts:

- High confidence of blizzard conditions with considerable blowing and drifting snow eastern MA/Rhode Island
 - Drifts up to 3-4 feet possible
- After snow exits, considerable blowing and drifting snow is possible.
- Mainly minor coastal flooding, but significant beach erosion east coastal MA and Cape Cod
- Strong N/NE winds to 40-55 MPH....65-75 MPH over Cape Cod
- Power outages likely, especially over the Cape/Islands
- Dangerous conditions for mariners - seas 25-35 feet offshore

Forecast Storm Total Snowfall

Expected Snowfall - Official NWS Forecast

Valid: 01/28/2022 07:00 PM - 01/30/2022 07:00 AM EST

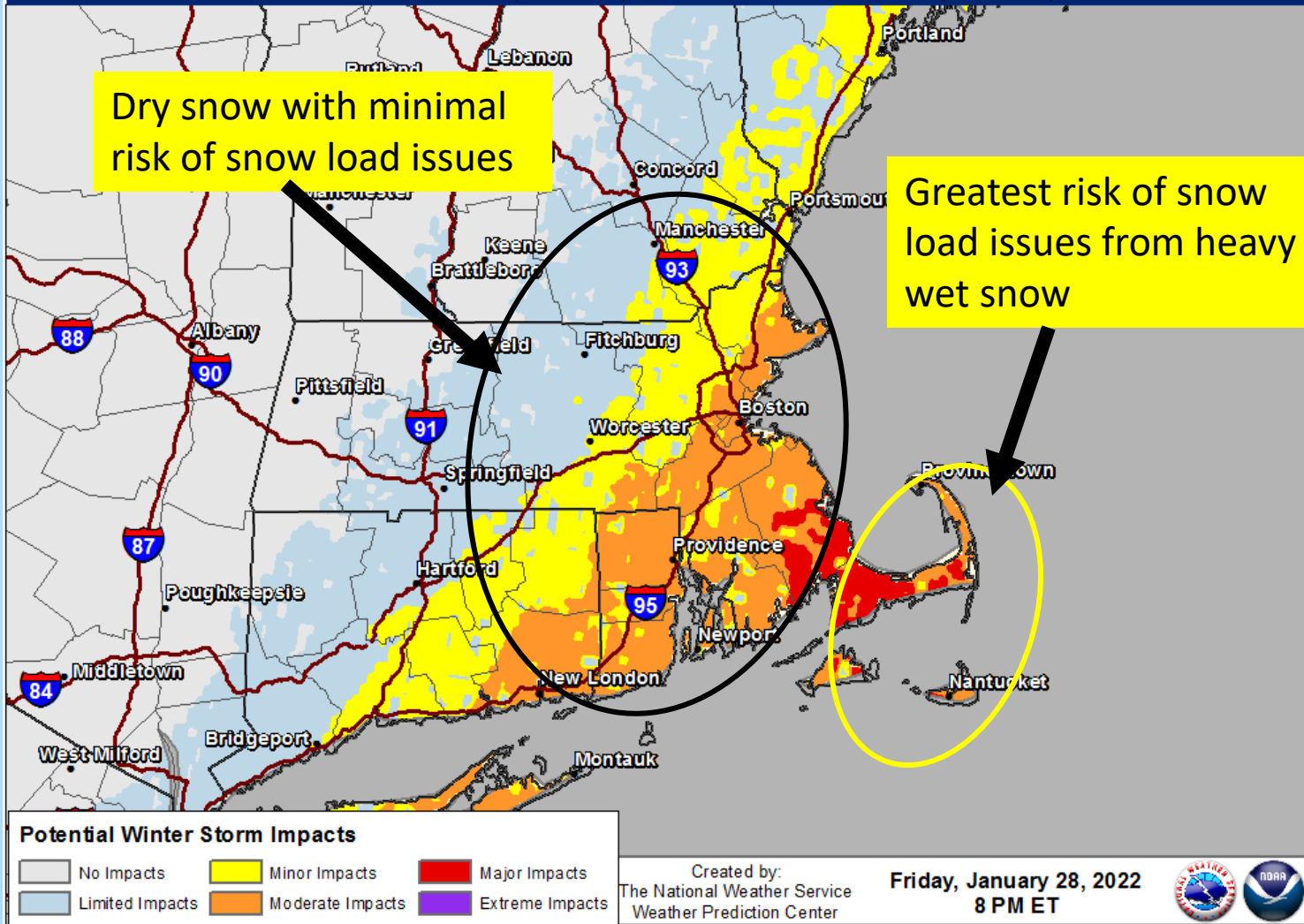


Timeline

- Heaviest snowfall rates develop 6-10 AM from south to north and continuing into afternoon
 - Peak snowfall rates of 2-4"/hour 10 AM to 4 PM
- Heaviest snowfall ends by 6 PM with light to moderate snow persisting into the evening
- Snow ends around midnight

Snow Load Impact through Saturday night

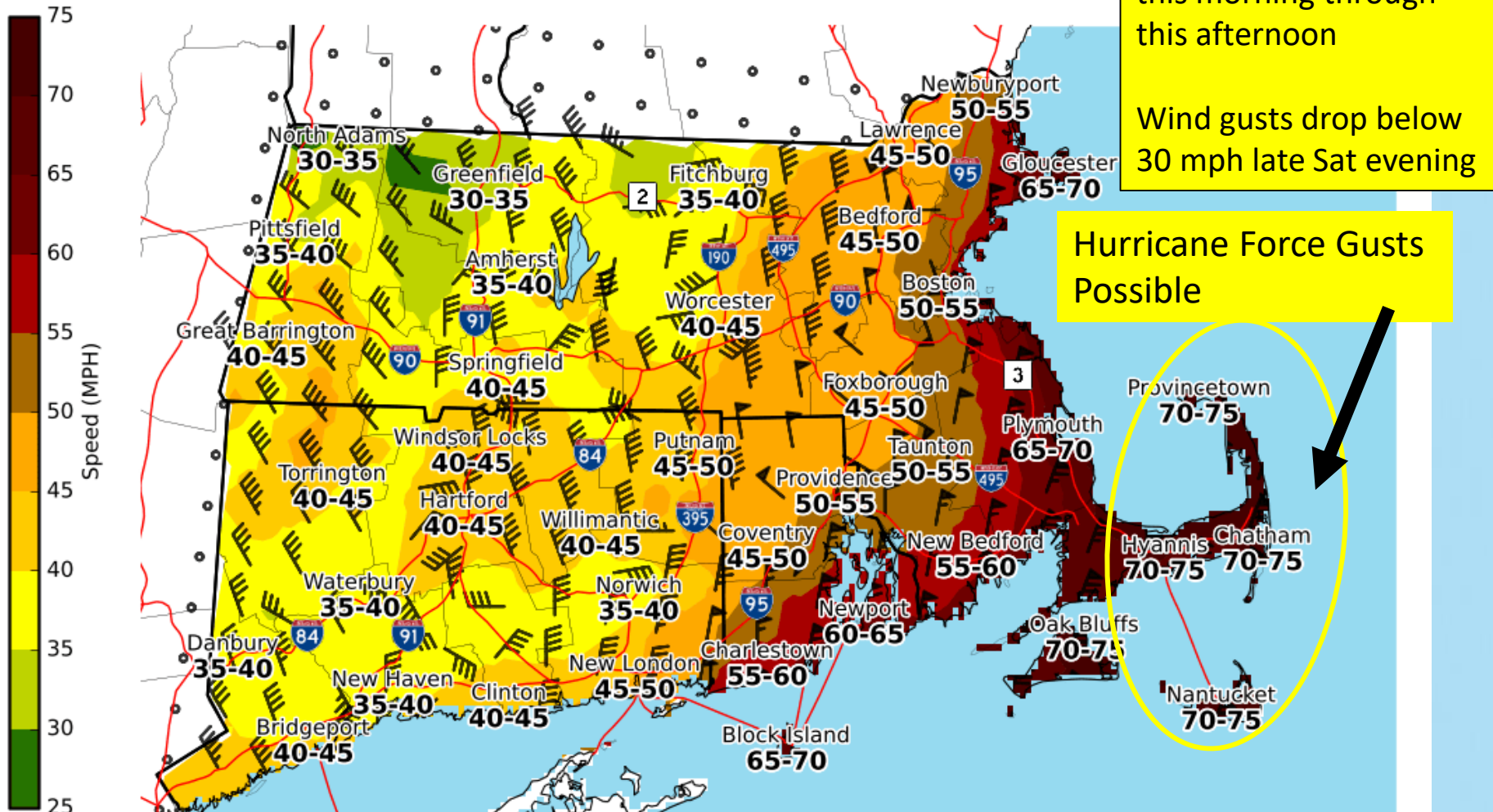
WSSI Snow Load - Valid From Fri, Jan 28, 2022 08 PM ET To Sat, Jan 29, 2022 07 PM ET



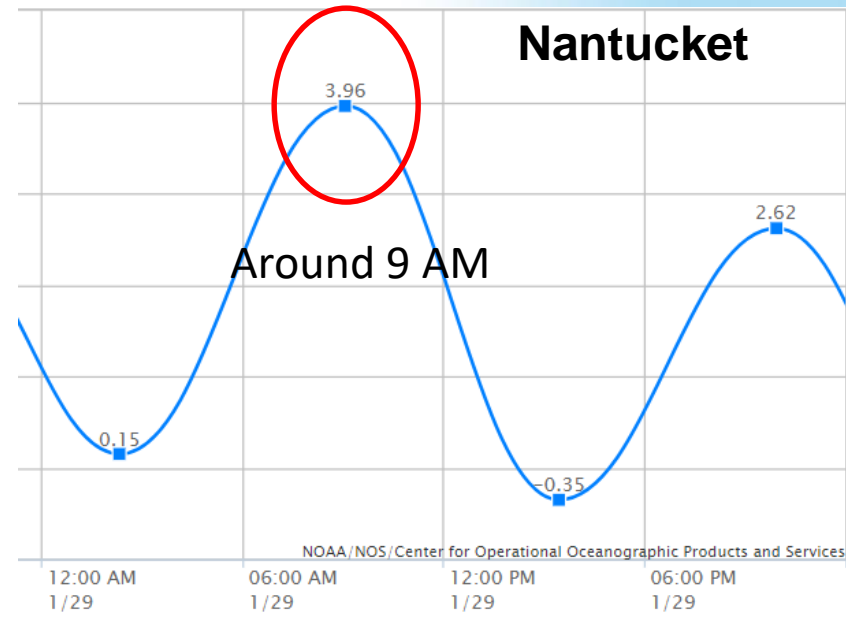
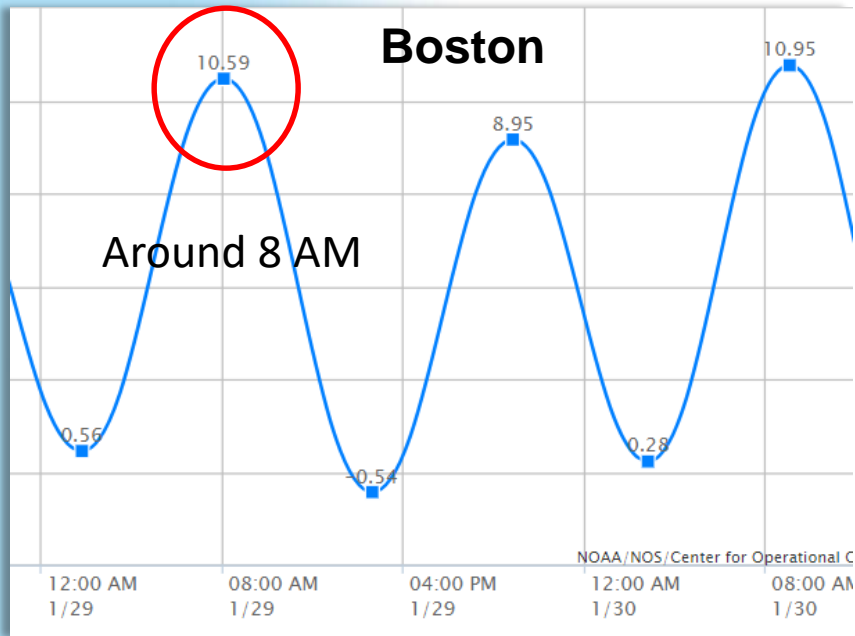
Forecast Maximum Wind Gusts

Max Wind Gusts (MPH)

Valid: 01/28/2022 07:00 PM - 01/30/2022 01:00 AM EST



Sat AM: Minor Coastal Flooding: Eastern MA Coast



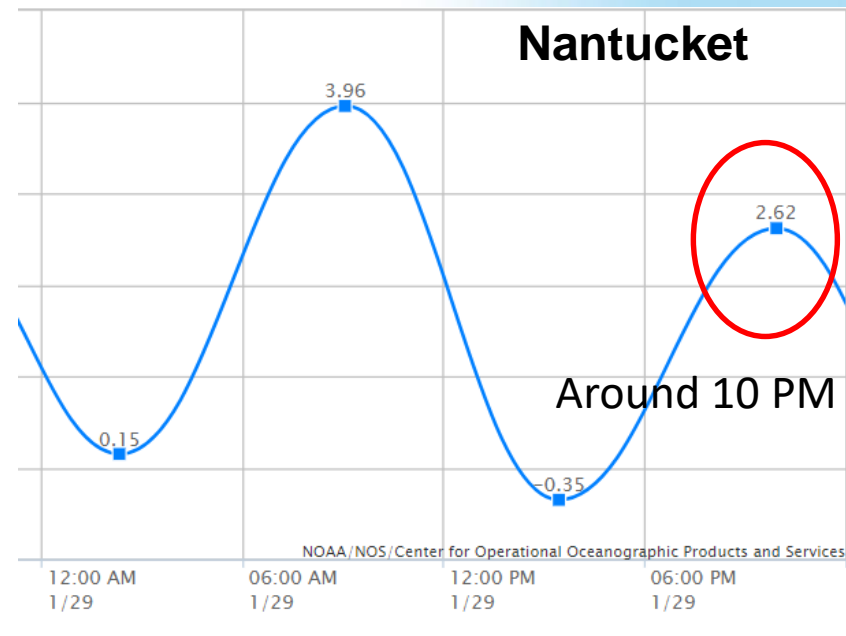
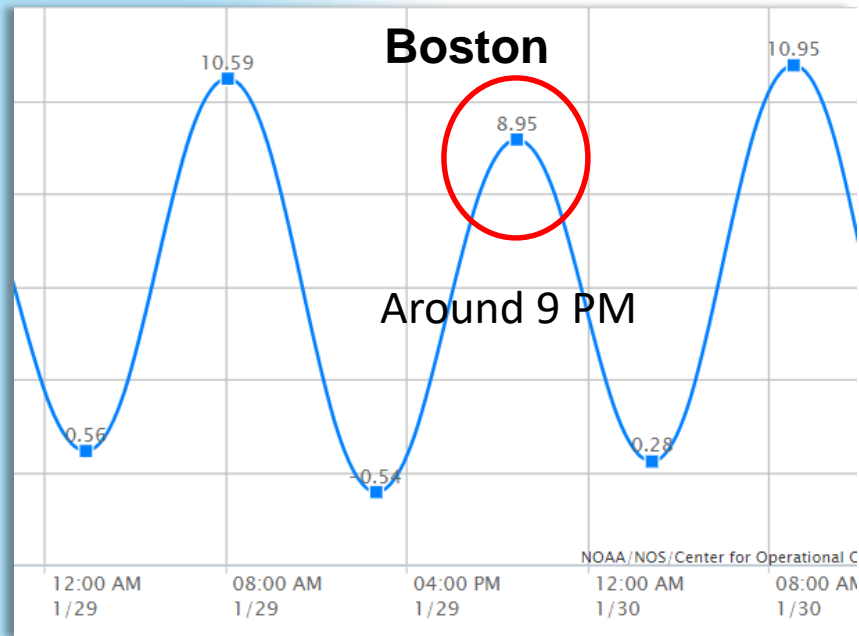
- 1-2 feet of inundation (above ground level)
- Minor to moderate beach erosion

Saturday AM high tide:

Minor to Moderate Flooding Likely

Surge: 1-2 ft

Sat PM: Minor Coastal Flooding: Eastern MA Coast



- Up to 1 foot of inundation possible, especially north- and east-facing coasts
- Significant beach erosion
- **Residual minor flooding/splashover Sunday morning (Cape Cod Bay)**

Saturday PM high tide:

Mainly Minor Flooding

Surge: 2-3 ft, up to 4 ft Cape Cod Bay but peaking 4 hours prior to high tide

Low risk for pockets of moderate flooding

- **Sandwich to Dennis**

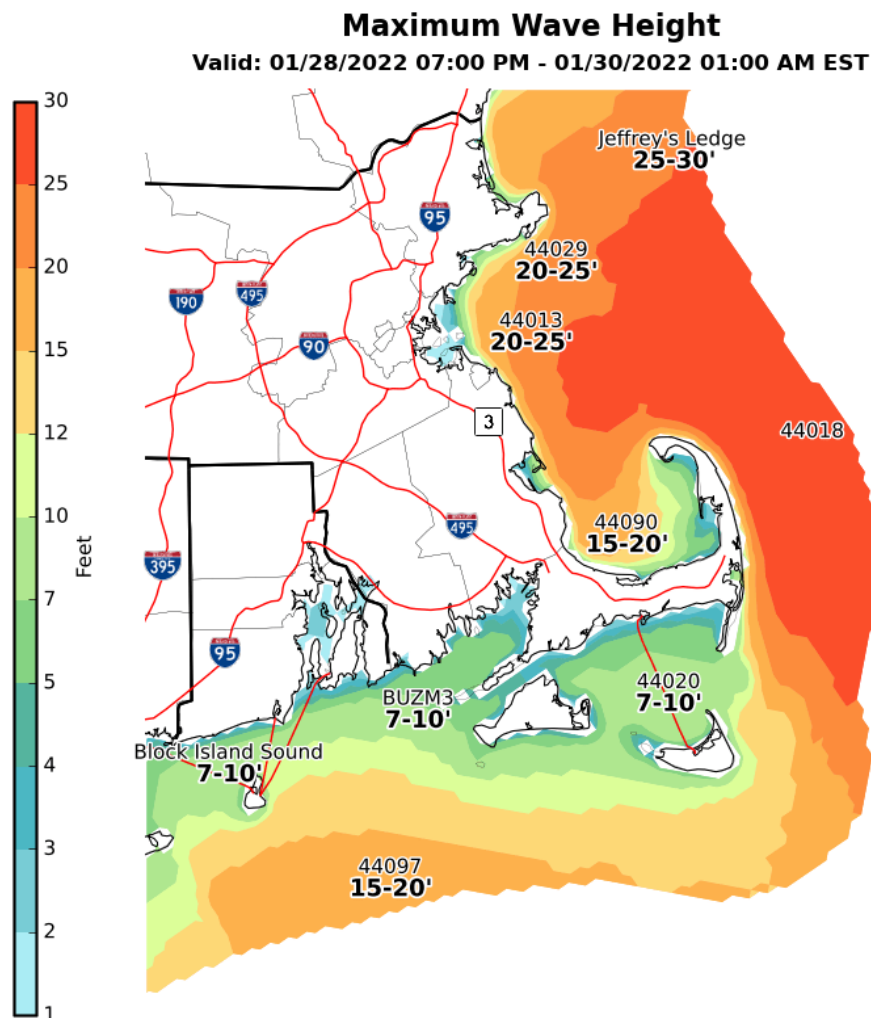
Concerns for Mariners

Wind:

- Peak gusts from North 50-65 kts this morning into early this evening
- Shift to NW Saturday night, then fall below Gale early Sunday morning

Seas:

- Build steadily today
- Peak 25-35 ft offshore this evening, 5-10 ft on bays and sounds

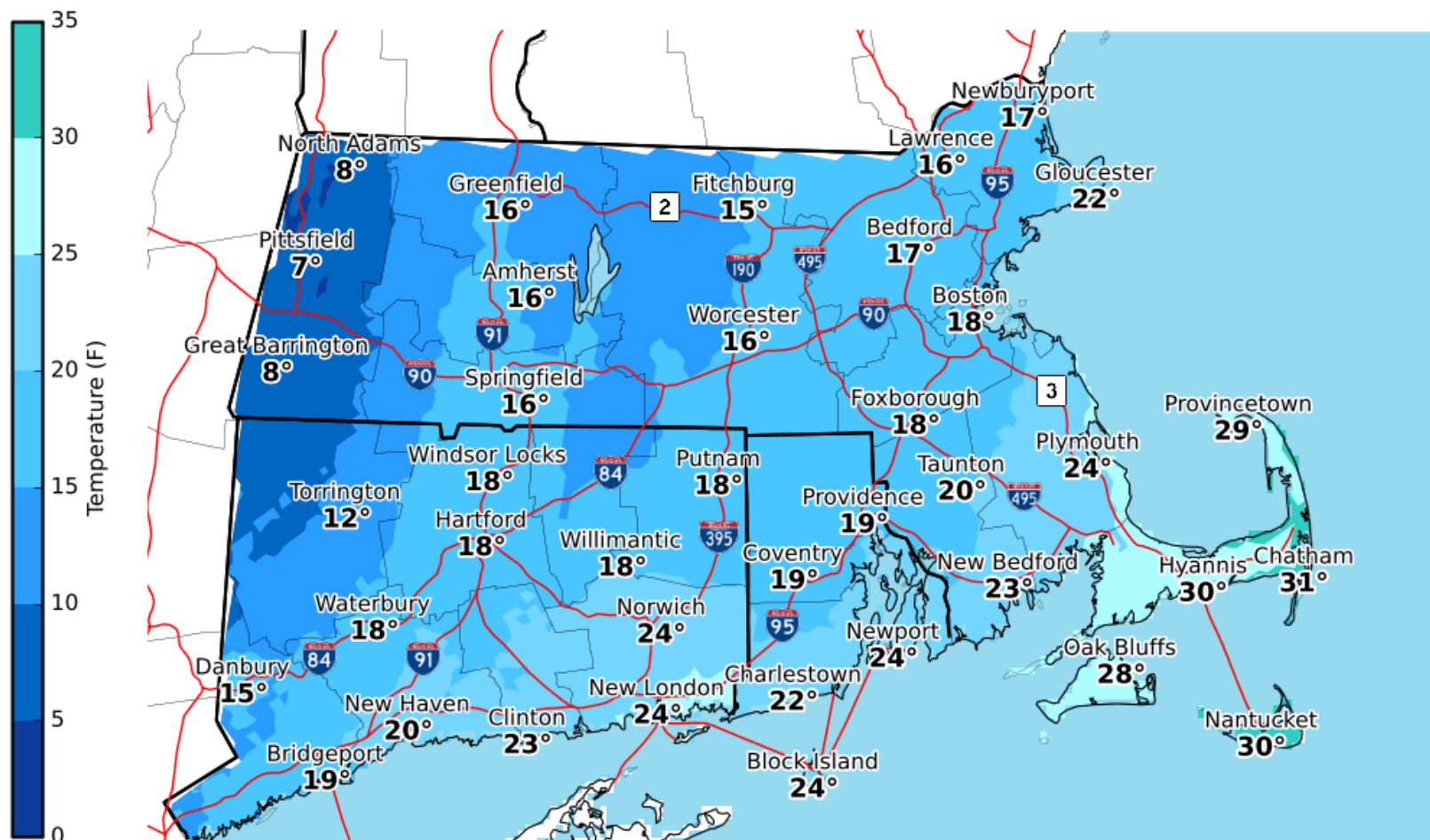


Localized rogue waves offshore could exceed 40 feet

1 pm Temperatures Today

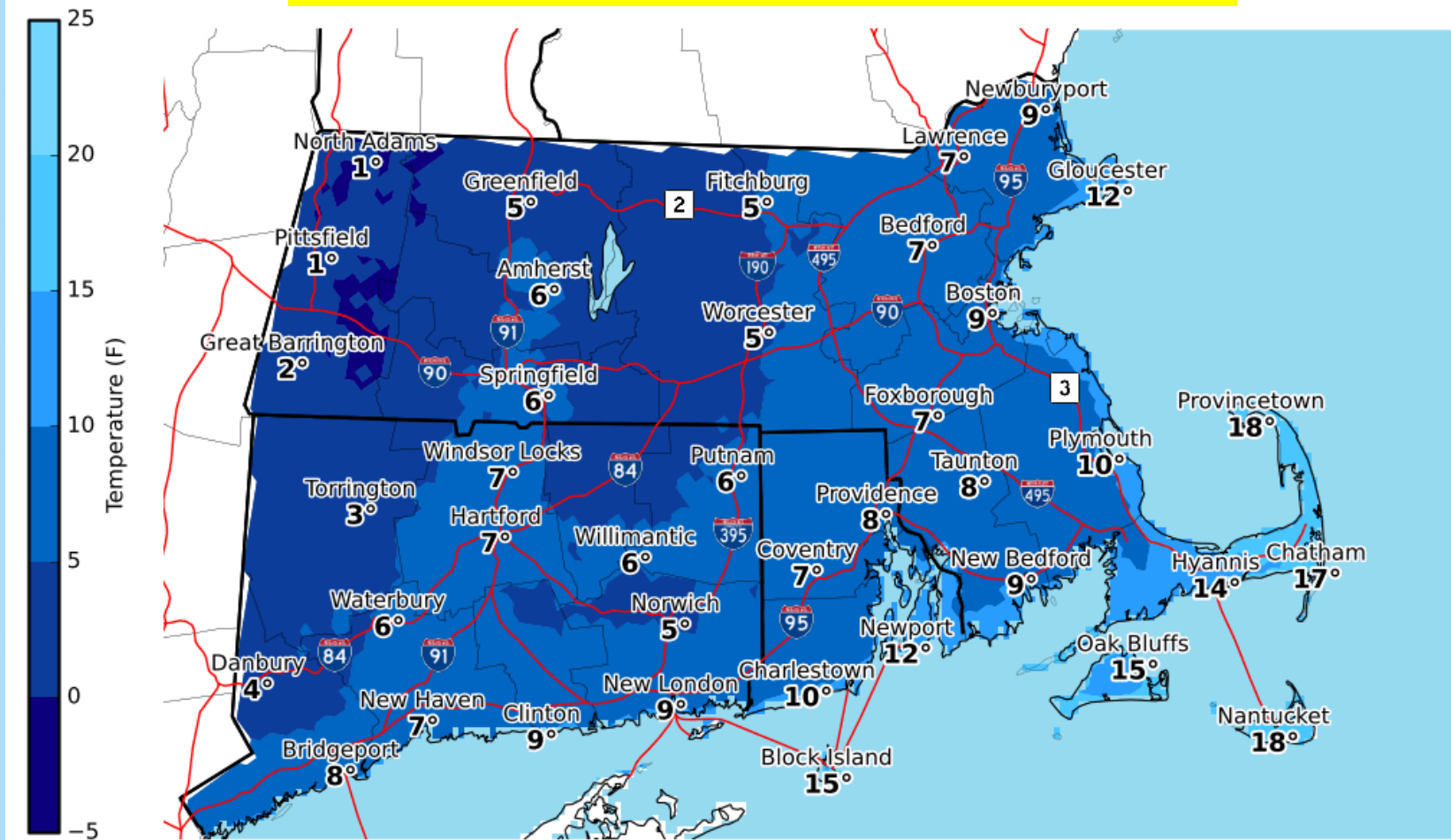
Hourly Temperatures

Valid: January 29, 2022



Low Temperatures Sunday Morning

Wind chills as low as 5 to 10 below zero



Threat Event Summary

✓ **Confidence:** High

✓ **What:**



Strong north/northeast wind gusts 40-55 MPH, 65-75 mph on Cape Cod where power outages likely



Significant snowfall and blizzard conditions, eastern MA/RI. Drifts to 3 to 4 feet possible eastern MA/RI



Mainly Minor coastal flooding, with significant beach erosion (especially Saturday evening)



Dangerous conditions for mariners - seas 25-35 feet offshore

✓ **Where:** All of Southern New England (MA, RI and CT)

✓ **When:** through tonight

Contact and Next Briefing Information

Next Briefing
This will be the final briefing



www.weather.gov/boston



Phone (public):
508-622-3250



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Disclaimer: The information contained within this briefing is time-sensitive,
do not use after 6 PM, Saturday, January 29, 2022