



# Winter Storm & Coastal Flooding

January 12, 2024  
5:20 AM

For New Hampshire and Western Maine

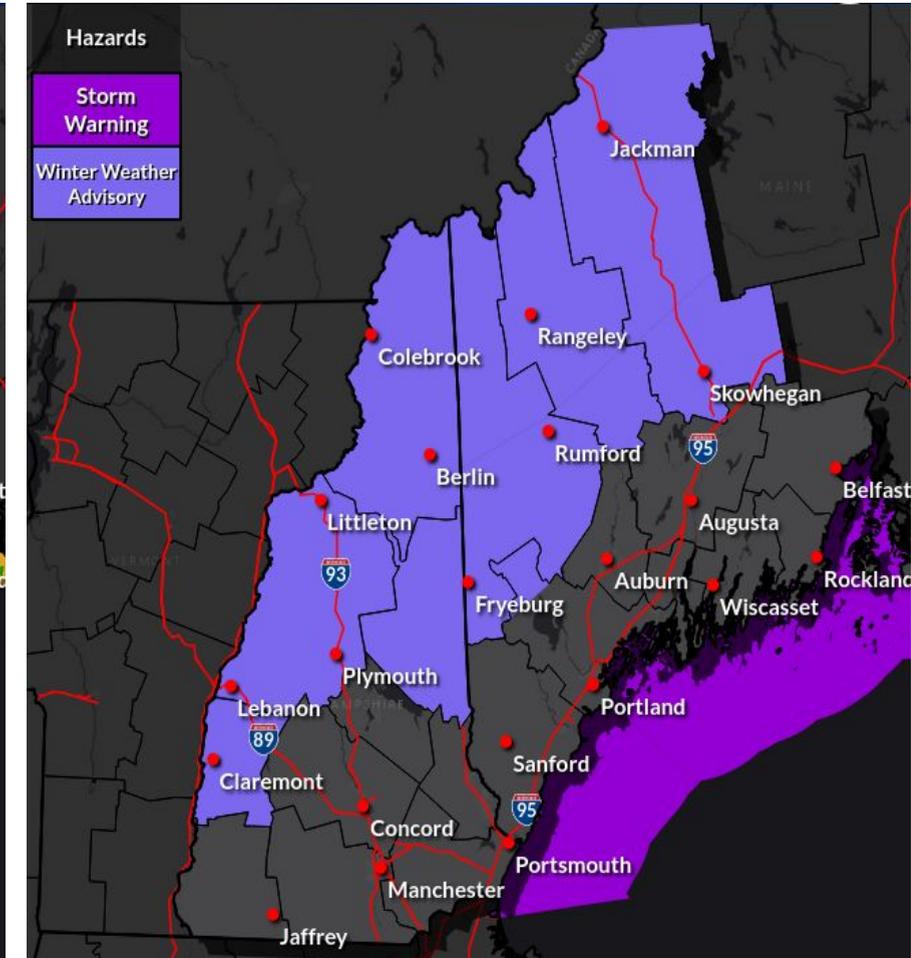
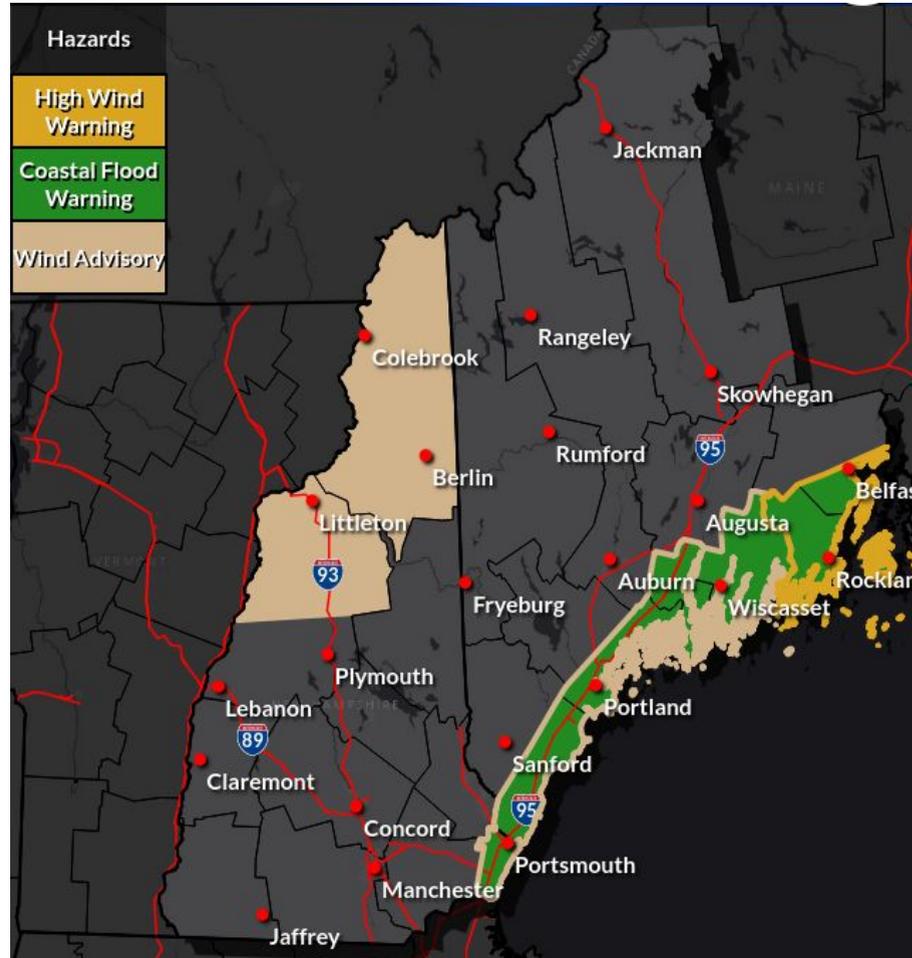
## Decision Support Briefing #2

→ As of January 12, 2024 5:20 AM

**NEW**

### Important Updates

- Warning and/or advisories issued for coastal flooding, winter weather, and wind
- No major changes in forecast thinking. Widespread moderate coastal flooding is expected. Major coastal flooding is also likely at a few locations.





# Main Points

January 12, 2024  
5:20 AM

Hazard	Impacts	Location	Timing	Confidence
<b>Wind</b>	Fallen tree limbs and a few uprooted trees are possible. Power outages are possible.	Coast & western slopes of the White Mtns	Late Friday Night - Saturday	50% - Moderate
<b>Flooding</b>	Rain and Melted Snow may result in ponding of water in poor drainage locations and minor stream flooding	Southern NH and Maine Coast	Saturday	50% - Moderate
<b>Marine</b>	Big waves and high winds will cause extremely dangerous seas even for the largest boats.	Coastal Waters	Late Friday Night - Saturday	75% - High
<b>Coastal Flooding</b>	Widespread flooding of low-lying vulnerable areas near the waterfront with 1 to 3 feet of inundation. Numerous coastal roads will become flooded with a few neighborhoods being cut-off due to closed roads.	Coast	Saturday Noon High Tide	75% - High
<b>Snow</b>	Snow will cause hazardous driving conditions. Travel should be rerouted or delayed if possible.	Interior	Late Friday Night - Saturday	75% - High



# Summary of Greatest Impacts

January 12, 2024  
5:20 AM



Wind: Coast and western slopes of the White Mountains					Confidence
None	Limited	Elevated	Significant	Extreme	50% - Moderate



Flooding: Coast & Interior					Confidence
None	Limited	Elevated	Significant	Extreme	50% - Moderate



Marine: Coastal Waters					Confidence
None	Limited	Elevated	Significant	Extreme	75% - High



Coastal Flooding: Coast					Confidence
None	Limited	Elevated	Significant	Extreme	75% - High



Snow: Interior					Confidence
None	Limited	Elevated	Significant	Extreme	75% - High



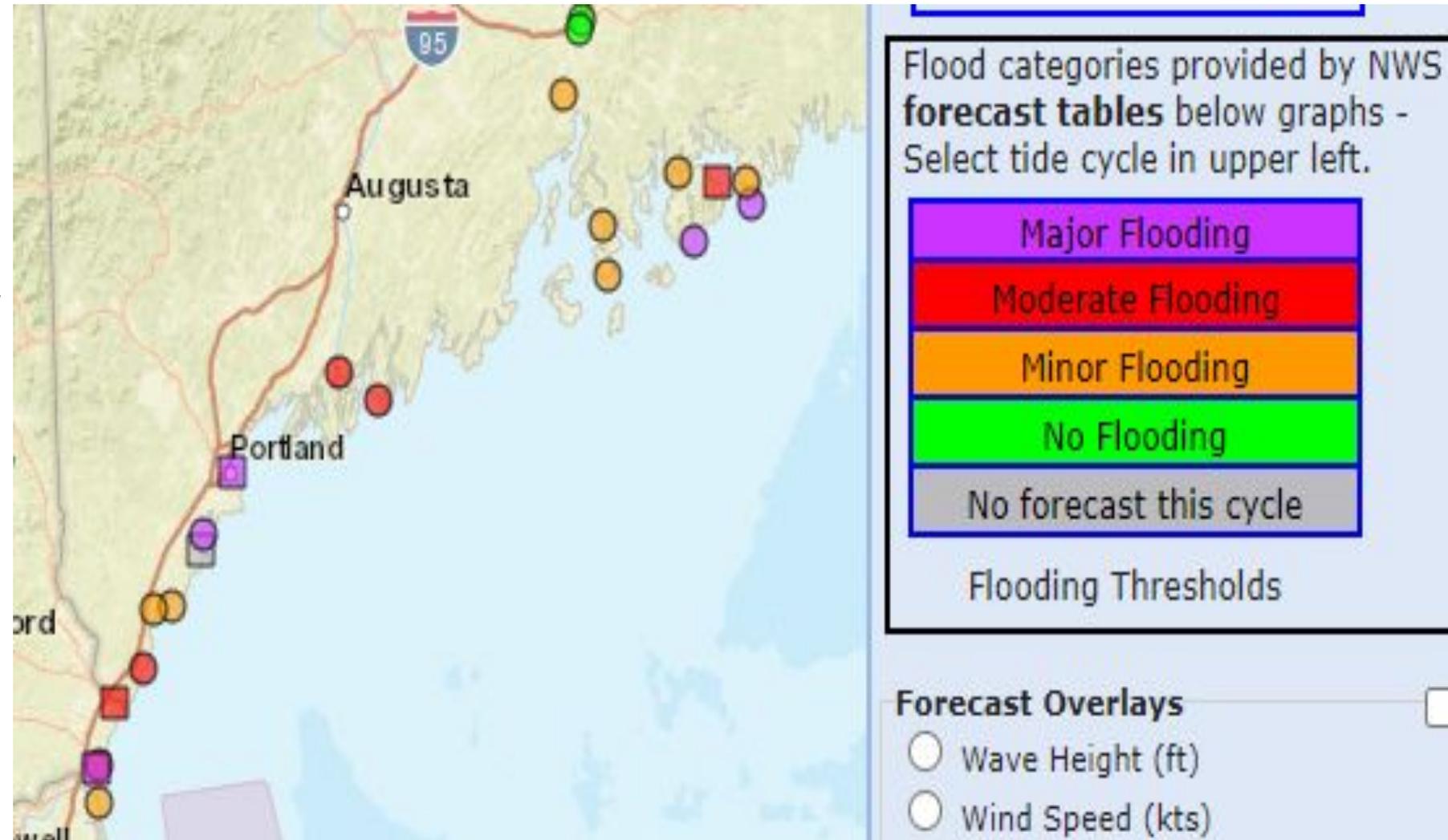


# Coastal Flooding - Key Messages

January 12, 2024  
5:20 AM

Moderate to locally Major coastal flooding expected

- Astronomical Tides are nearly one foot higher than on Wednesday
- Beach Erosion & coastal inundation Wednesday has increased vulnerability
- While the storm is somewhat weaker (less surge), the higher tides will result in significant inundation
  - Storm surge of 2.5 to 3 ft expected
  - Inundation of 1 to 3 feet likely
- Offshore seas of 14-18 feet



**Bottom Line: Coastal Partners need to prepare for the potential for major coastal flooding due to 2.5 - 3 feet of surge expected at the time of high tide around noon Saturday**

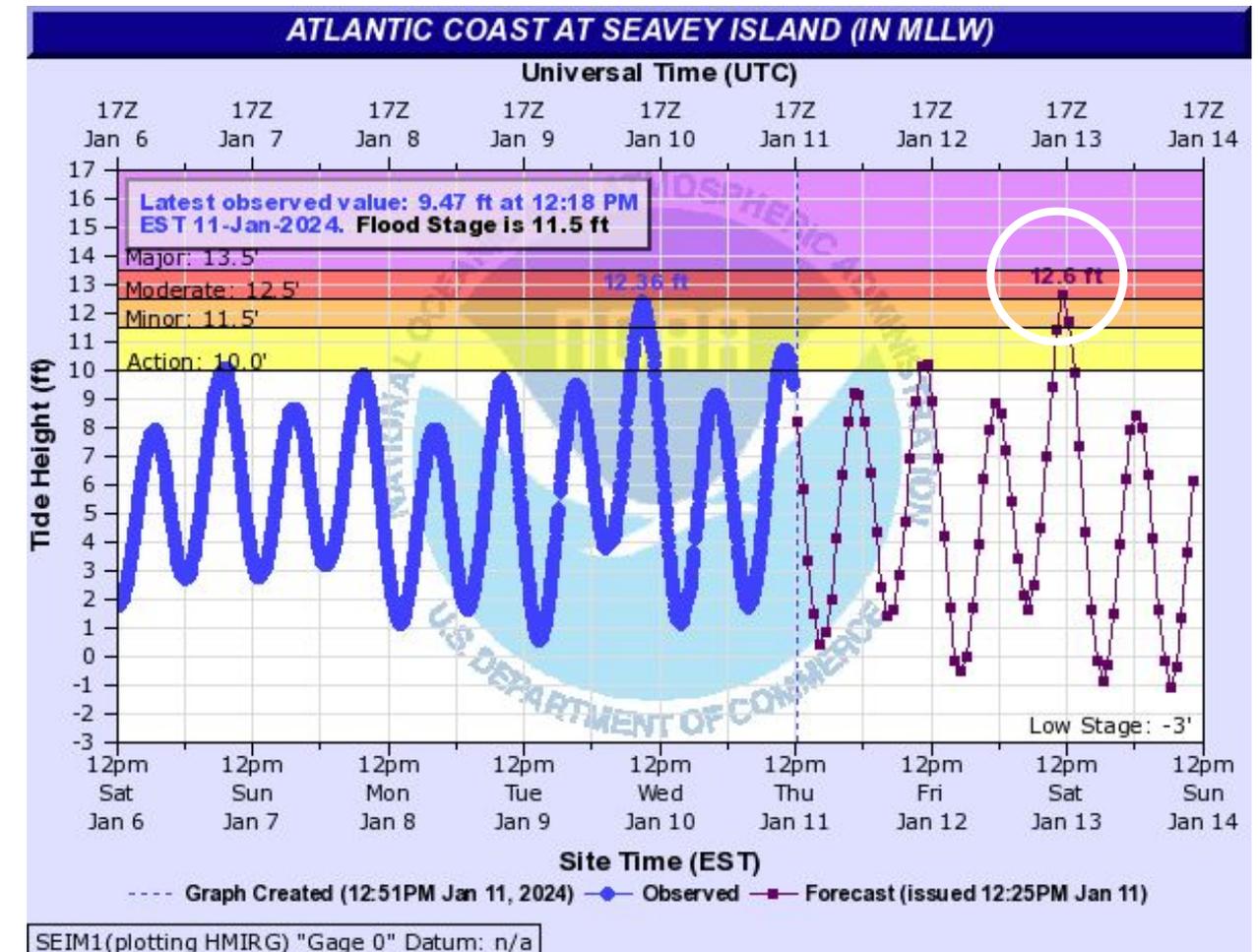
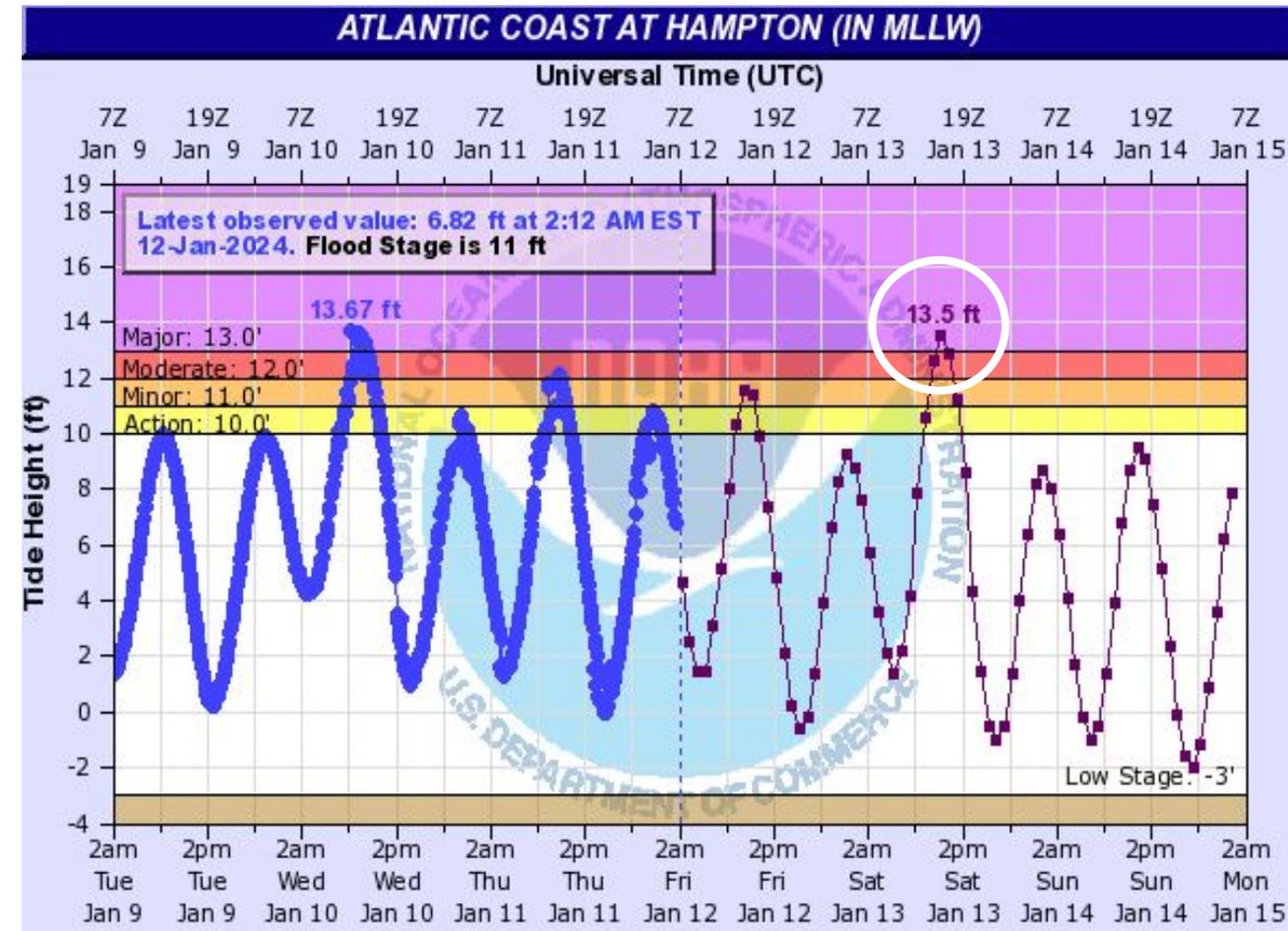


# Coastal Flooding - New Hampshire

January 12, 2024  
5:20 AM

## Key Messages

- Moderate to Major Coastal Flooding
- High Tide 12:20pm Saturday at Hampton/Seavey Island
- Storm Surge 2.5 to 3 feet → Inundation 1-3 feet
- Significant Beach Erosion and Splash over expected



Additional (up to date) Information

<https://www.weather.gov/erh/coastalflood?wfo=gux>



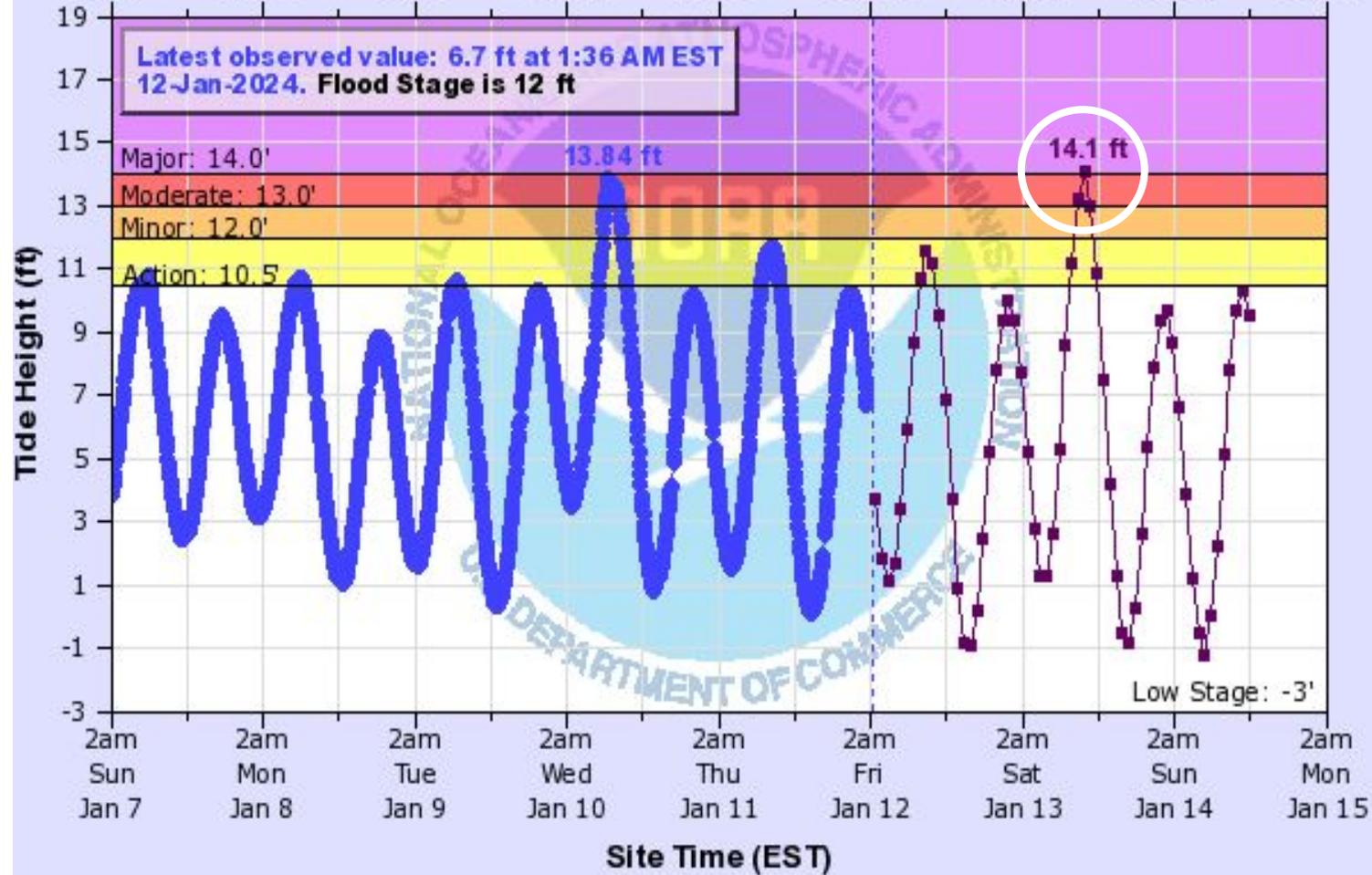
# Coastal Flooding - Maine

January 12, 2024  
5:20 AM

## ATLANTIC COAST AT PORTLAND (IN MLLW)

Universal Time (UTC)

7Z Jan 7 7Z Jan 8 7Z Jan 9 7Z Jan 10 7Z Jan 11 7Z Jan 12 7Z Jan 13 7Z Jan 14 7Z Jan 15



## Key Messages

- Borderline Moderate/Major coastal flooding
- High Tide 12:05pm Saturday at Portland (11.2 MLLW)
- Storm Surge 2.5 to 3 feet
- Inundation around 2 feet
- Significant Beach Erosion and Splash over expected
- Expect areas that were impacted Wednesday to see significant impacts again

Additional (up to date) Information

<https://www.weather.gov/erh/coastalflood?wfo=gyx>

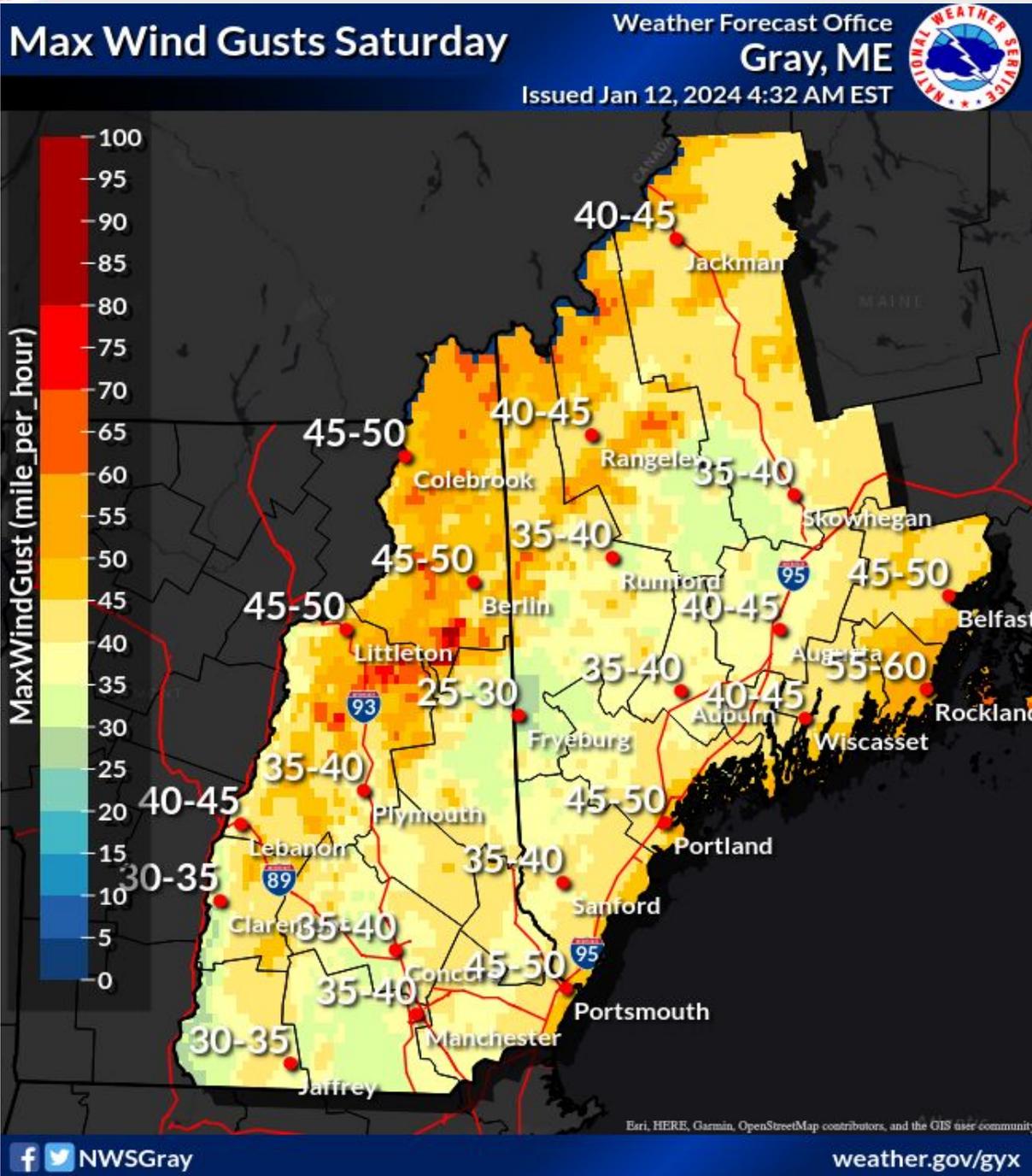






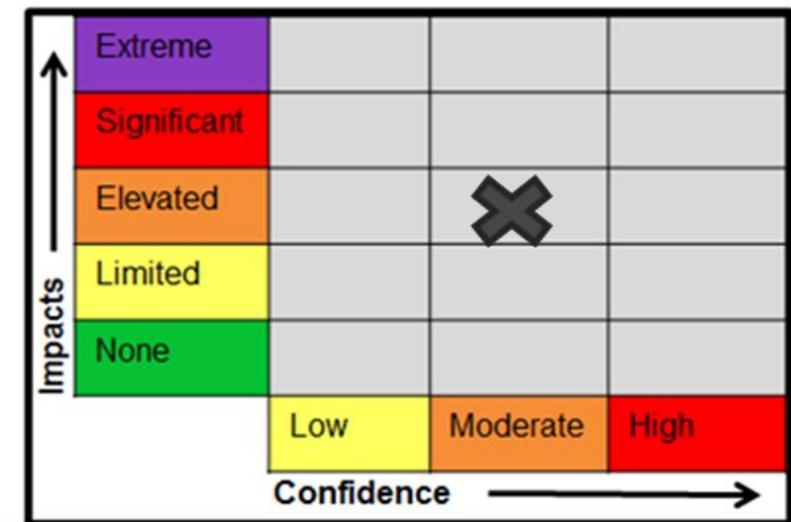
# Peak Wind Gusts Expected

January 12, 2024  
5:20 AM



## Key Messages

- Wind gusts lower than on Wednesday with strongest gusts in the same areas
- Peak winds will be from the southeast
- Strongest winds 5am - 12pm Saturday
- Power outages possible
- For the most up to date wind map visit <https://www.weather.gov/gyx/EMhome>



National Weather Service  
Gray-Portland, ME



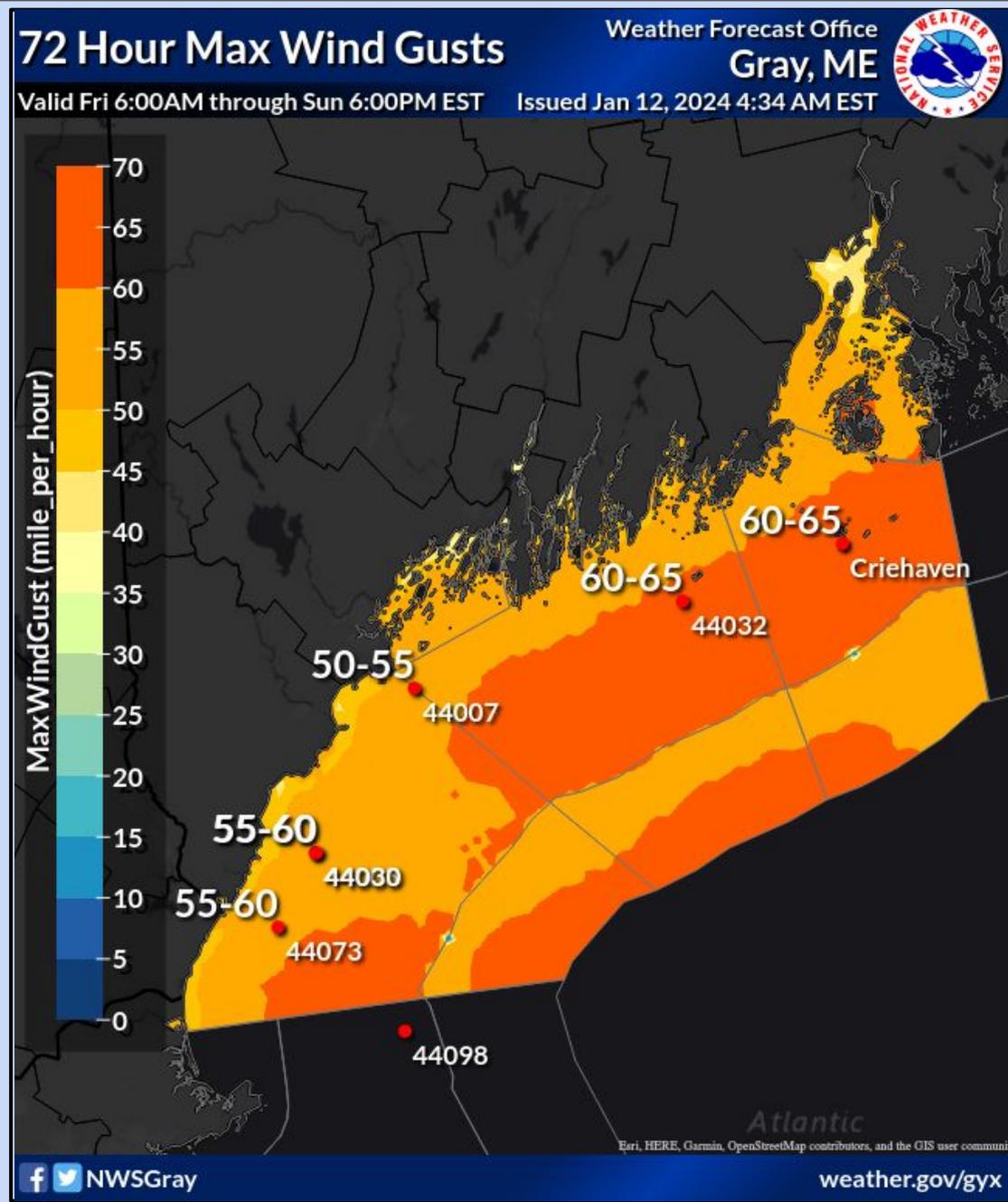


# Marine Hazards

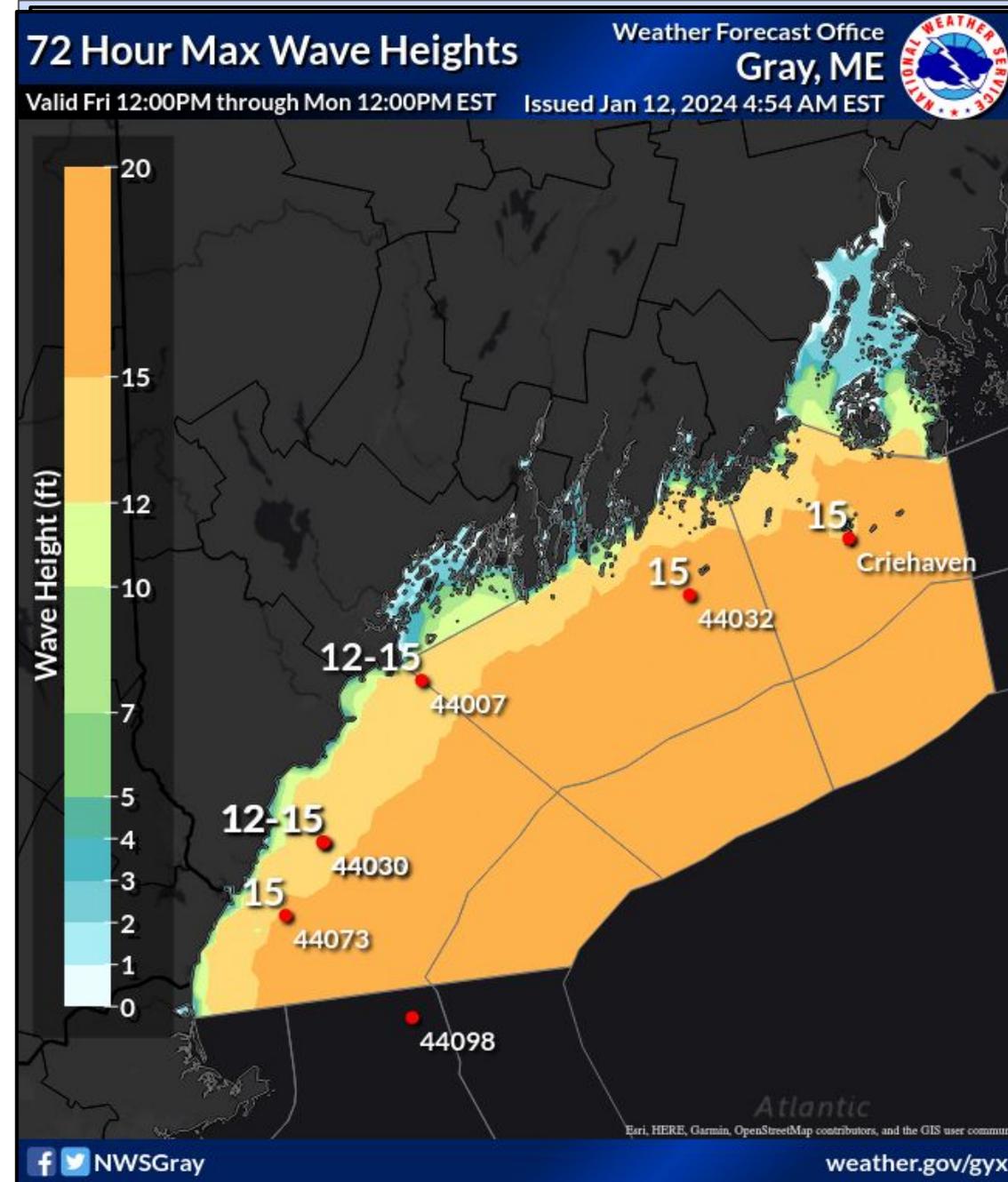
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5:20 AM

## Storm Warning in Effect for all Waters

Peak  
Wind  
Gusts  
Expected



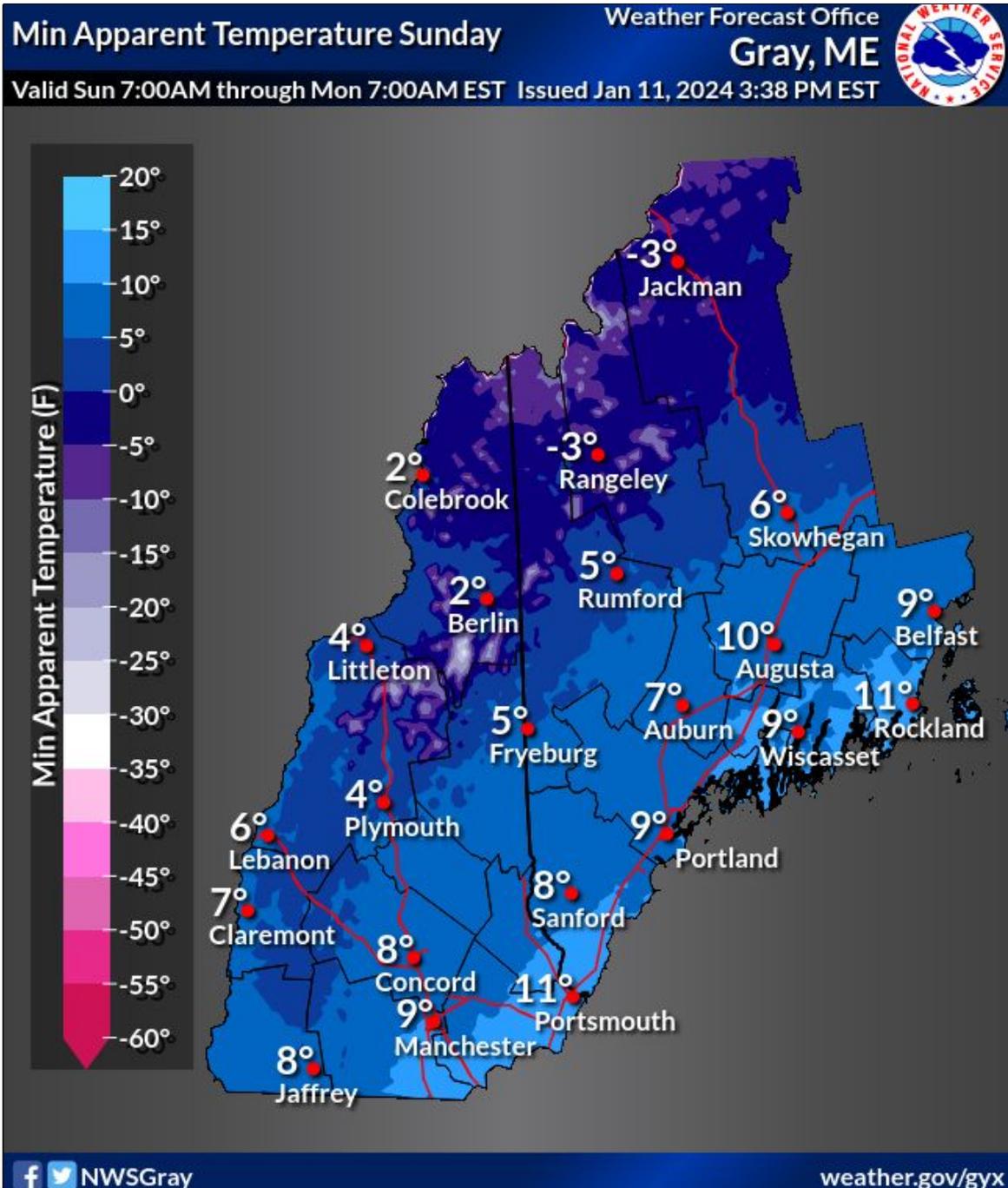
Peak  
Wave  
Heights  
Expected





# Recovery Weather

January 12, 2024  
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## Key Messages

- Temperatures turn significantly colder Saturday night into Sunday
- Partly Sunny Sunday scattered snow showers
  - Very breezy with west winds 15 to 25 mph with gusts 30 to 40 mph.
- The next potential storm comes Tue-Tue night but track is very uncertain
- For the most up to date map visit <https://www.weather.gov/gyx/EMhome>





# Event Summary

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5:20 AM

## Another multi-faceted winter storm expected

### Key Messages

- Another snow to rain event with strong coastal winds and significant coastal flooding.
- Snow/Rain impacts expected to be less than Wed
- Period of greatest impact: Saturday Morning

### What We Are Certain Of:

- Coastal flooding will occur with the Sat high tide.
- Slick travel is likely away from the coast early Saturday with the strongest winds at the coast.

### What We Are Less Certain Of:

- Extent of Major Coastal Flooding
- Strength of winds inland

	<ul style="list-style-type: none"> <li>• Moderate to major coastal flood impacts are expected at the noon high tide on Saturday, particularly given the increased vulnerability along the coast.</li> </ul>
	<ul style="list-style-type: none"> <li>• Moderate snowfall accumulations will be less than those on Wednesday but will bring slick travel.</li> <li>• No significant ice is expected. Snow may be heavy and wet.</li> </ul>
	<ul style="list-style-type: none"> <li>• Strong southeast winds may result in some tree damage along the coast and also on the western slopes of the White Mountains with power outages possible.</li> </ul>
	<ul style="list-style-type: none"> <li>• Rainfall across southern NH and the coast of ME will result in ponding of water on roads with some small streams out of their banks. Less rain is expected than on Wednesday with lower impacts.</li> </ul>



# Contact and Next Briefing Information

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## Briefing Webpage

- [www.weather.gov/gyx/EMhome](http://www.weather.gov/gyx/EMhome)
- [www.weather.gov/gyx/winter](http://www.weather.gov/gyx/winter)



## Next Briefing

- By 5pm Friday, January 12th
- Method: Email



## Disclaimer

- Information contained in this briefing is time-sensitive
- Do Not Use After: 5pm Friday, January 12th



## Contact Information

### Web

- [www.weather.gov/gyx](http://www.weather.gov/gyx)

### Phone (public)

- (207) 688-3216

### Email

- [gyx.skywarn@noaa.gov](mailto:gyx.skywarn@noaa.gov)

### Facebook

- [NWSGray](https://www.facebook.com/NWSGray)

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