



Multi-Hazard Significant Winter Storm

January 9, 2024
5:46 AM

For New Hampshire and Western Maine

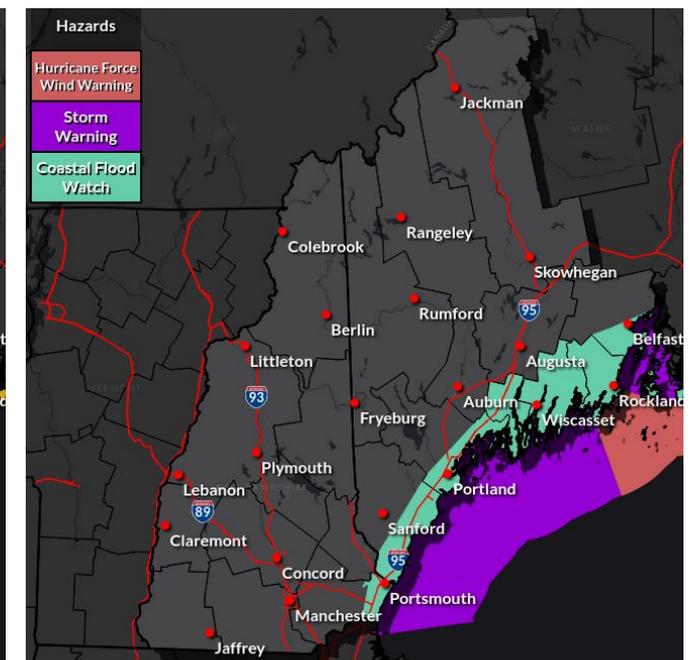
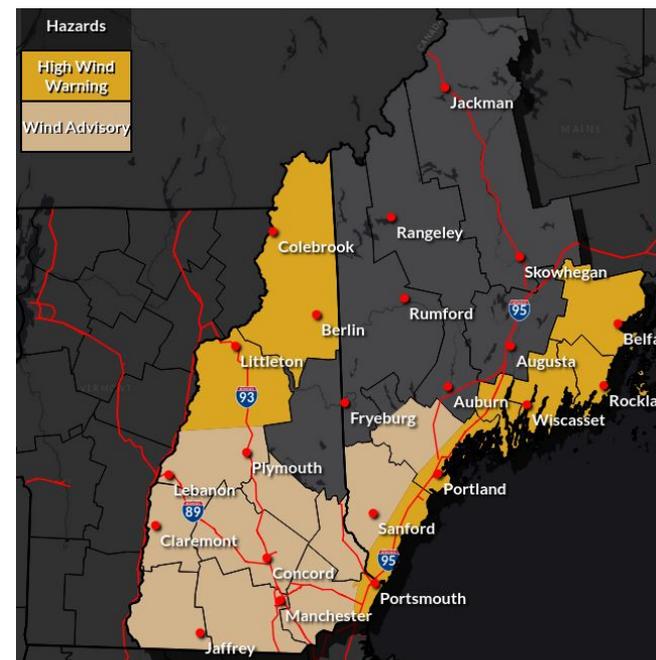
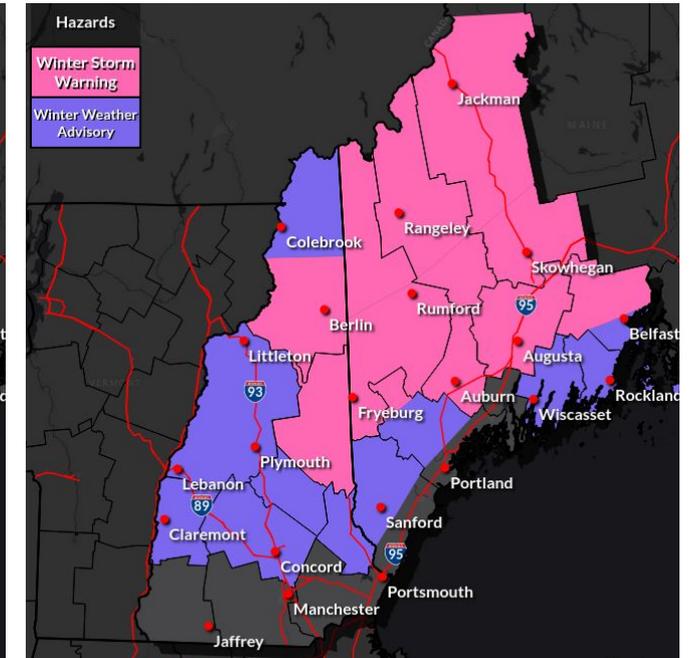
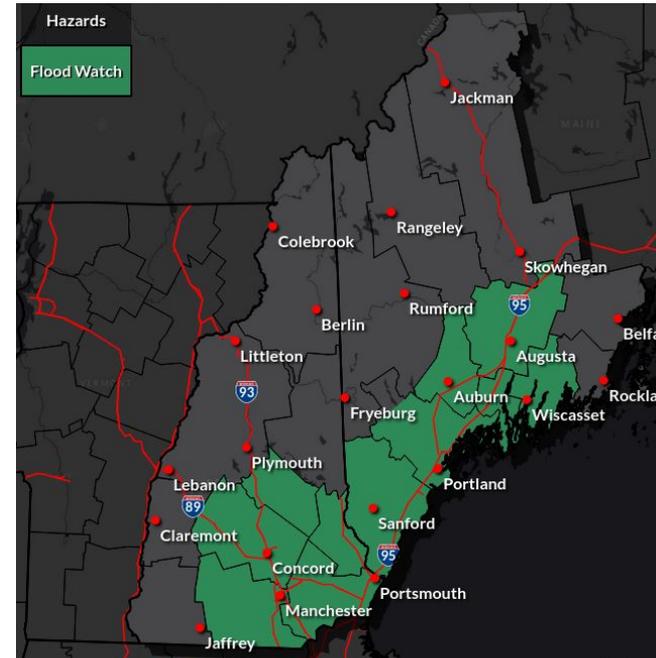
Decision Support Briefing #1

→ As of January 9, 2024 5:46 AM

NEW

Important Updates

- Most watches upgraded to warnings and advisories
- Coastal Flood Watch remains in effect
- No significant trends in guidance today, confidence is increasing for a messy Tuesday night and Wednesday morning.





Main Points

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Hazard	Impacts	Location	Timing	Confidence
Wind	Damage to trees, power lines and property likely. Numerous power outages are possible.	New Hampshire & Western Maine	Tuesday night through Wednesday	75% - High
Flooding	Heavy rain and snow melt will lead to areas of flooding with many road closures and minor property damage possible.	Coast & Interior	Wednesday	50% - Moderate
Marine	Big waves and high winds will cause extremely dangerous seas even for the largest boats.	Coastal Waters	Tuesday night through Wednesday	75% - High
Coastal Flooding	Minor coastal erosion possible on exposed low-lying shorelines. Splash-over with small rocks on coastal roads.	Coast	Wednesday Morning High Tide	50% - Moderate
Snow	Heavy snow will cause hazardous driving conditions. Travel should be rerouted or delayed if possible.	Interior	Tuesday night through Wednesday Morning	75% - High



Summary of Greatest Impacts

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Wind: New Hampshire & Western Maine

Confidence



75% - High



Flooding: Coast & Interior

Confidence



50% - Moderate



Marine: Coastal Waters

Confidence



75% - High



Coastal Flooding: Coast

Confidence



50% - Moderate



Snow: Interior

Confidence



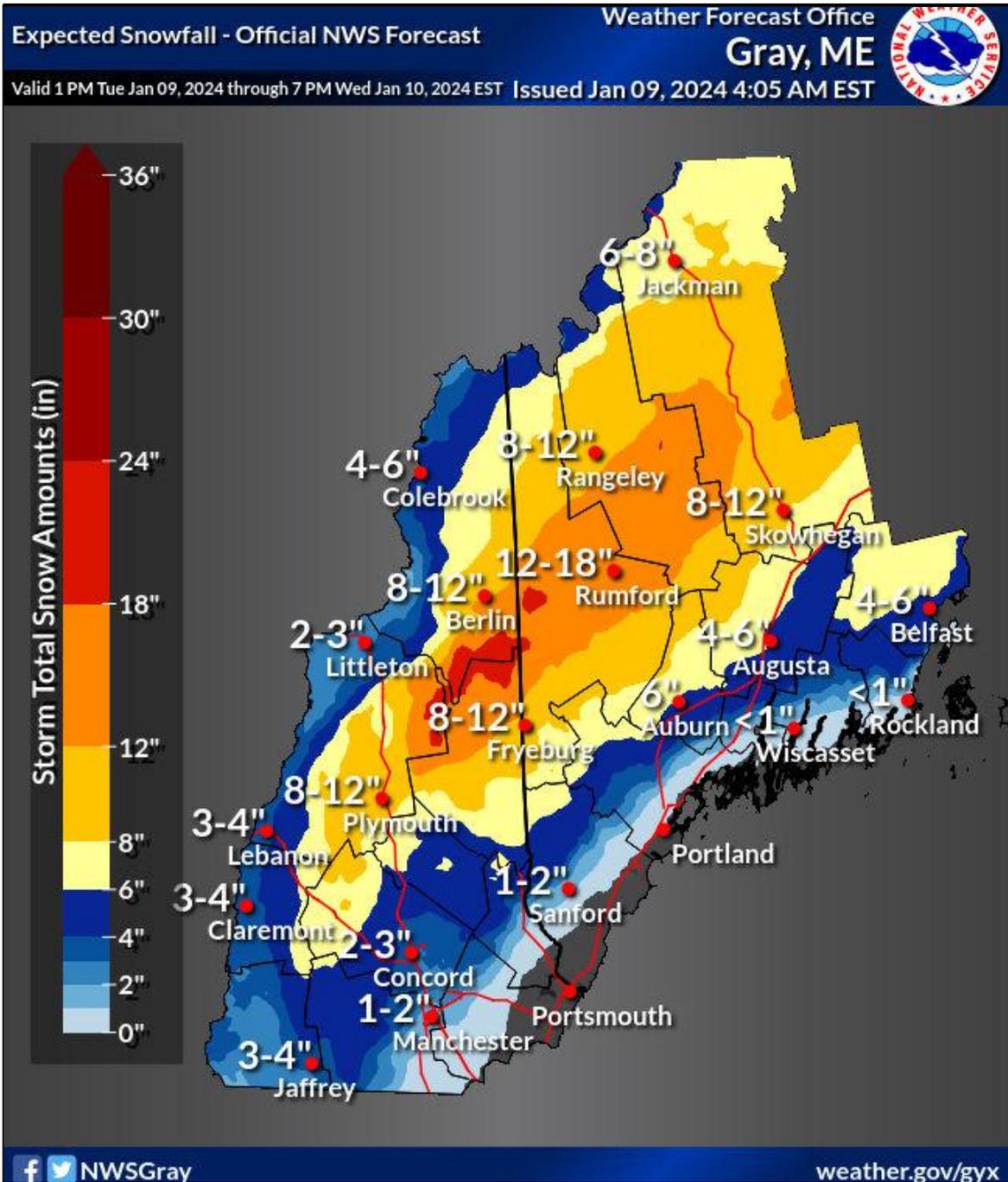
75% - High





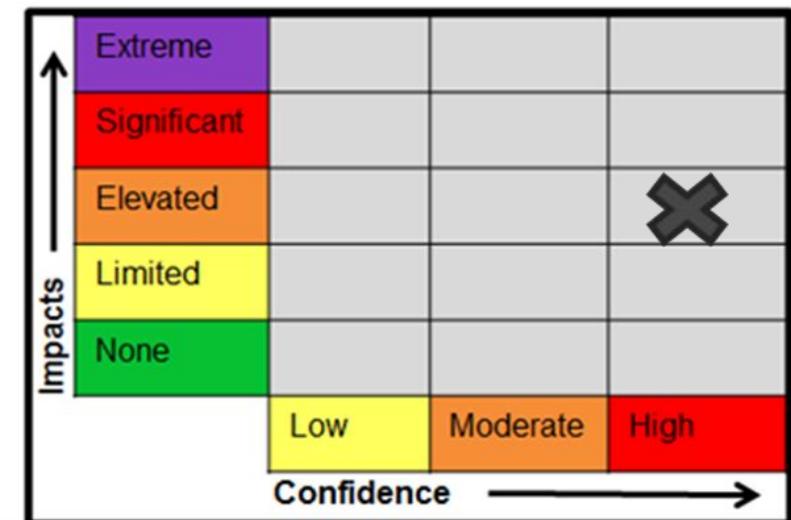
Storm Total Snow

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Key Messages

- Snow is expected to be heaviest in the Mountains and Foothills
- Snow will begin fluffy, but transition to a wet snow through Tuesday night into Wednesday morning
- Snowfall rates will be greatest during the overnight hours, up to 2 inch per hour
- Most new snow south from the interior to the coast will melt before daybreak
- For the most up to date snowfall map visit www.weather.gov/gyx/winter



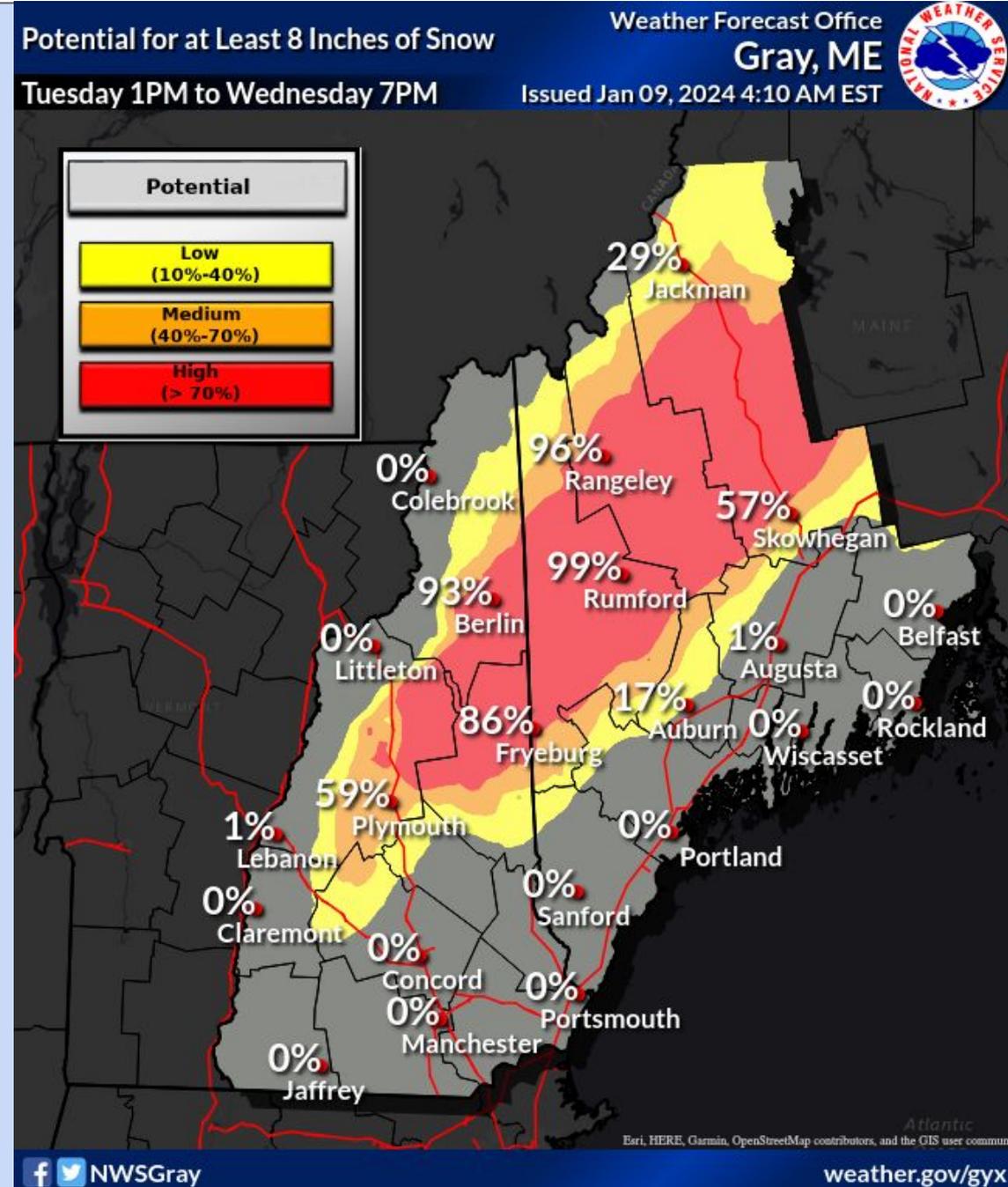
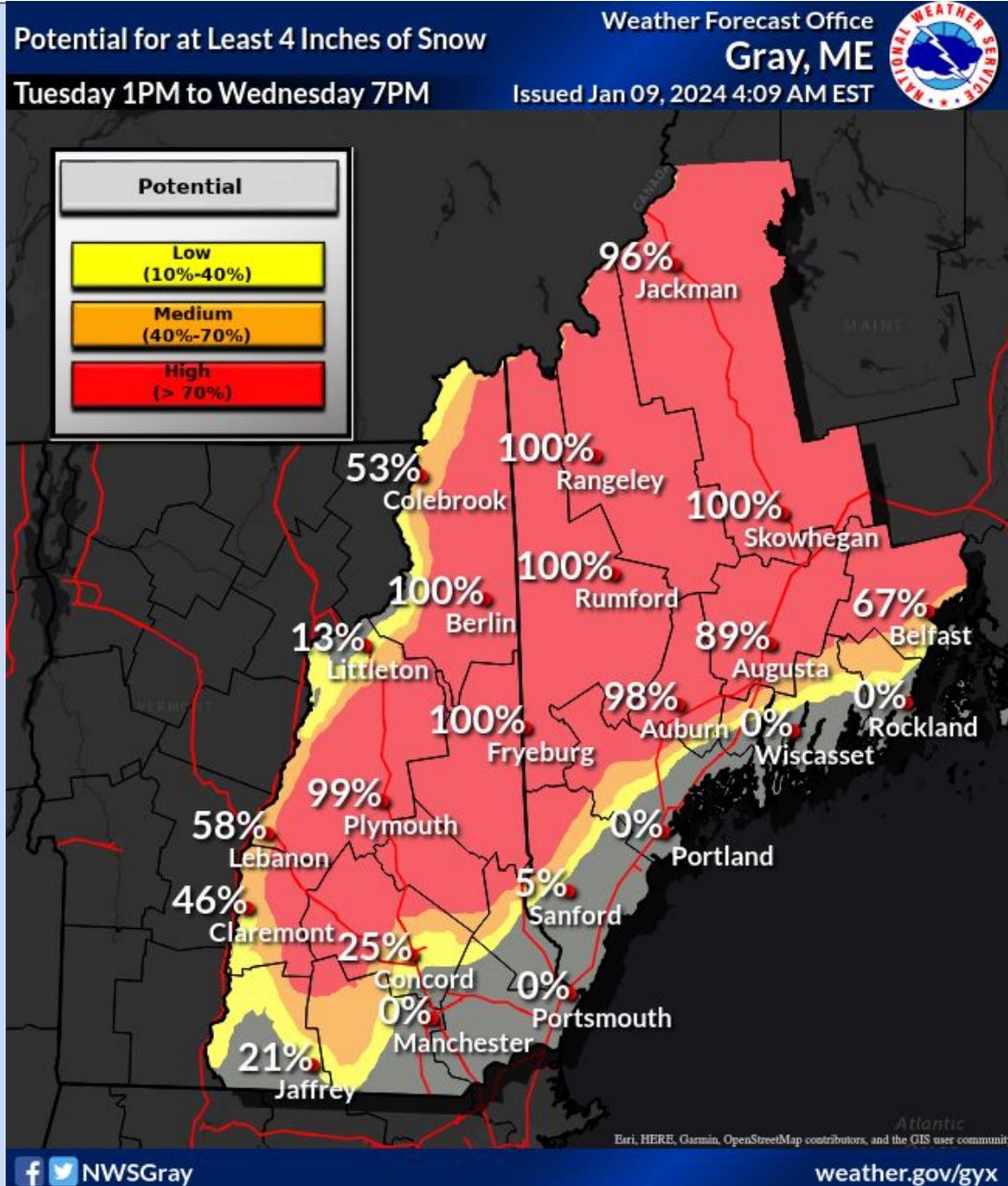


Snow Probabilities

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Confidence of Receiving Certain Snowfall Amounts

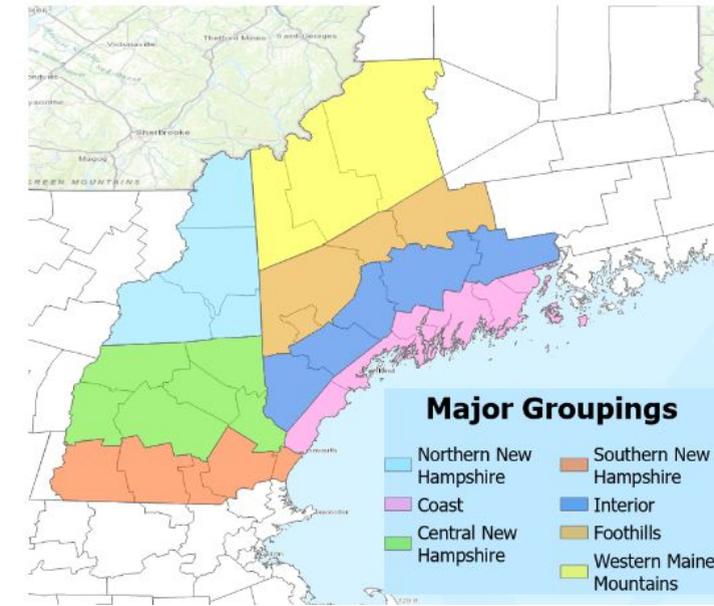




Precipitation Types

January 9, 2024
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	Tue, Jan 9 - 8 PM	Wed, Jan 10 - 2 AM	Wed, Jan 10 - 8 AM	Wed, Jan 10 - 2 PM
Northern NH Pittsburgh, Whitefield, Berlin				Snow to Rain
Central NH Lebanon, Concord, Ossipee				
Southern NH Keene, Nashua, Portsmouth	Snow to Rain			
Western Maine Mtns Rangeley, Jackman			Snow to Rain	
Maine Foothills Fryeburg to Skowhegan		Snow to Rain		
Maine Interior Sanford to Unity				
Maine Coast York to Belfast				





Starting and Ending Time

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Starting Time

Winter Precipitation Onset Time

Valid 1 PM Tue Jan 09, 2024 through 7 PM Wed Jan 10, 2024 EST

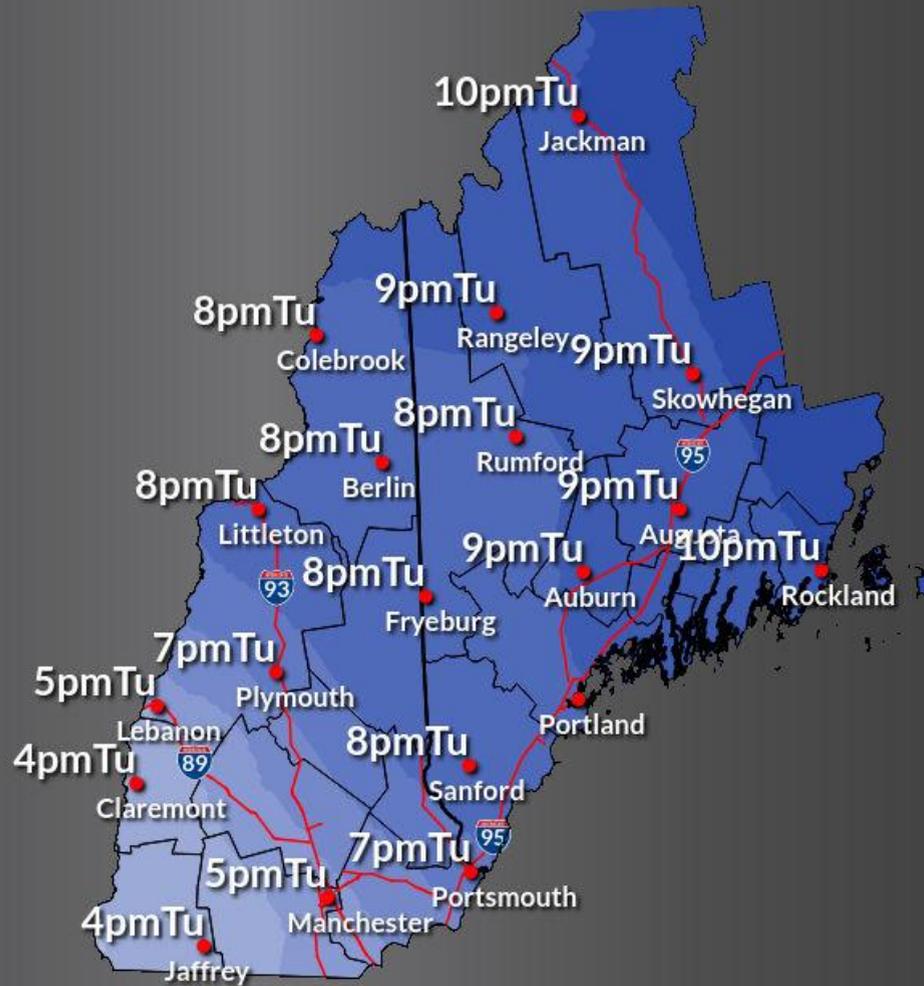
Weather Forecast Office
Gray, ME

Issued Jan 09, 2024 4:12 AM EST



Precipitation Onset Time

3pmTu
4pmTu
5pmTu
6pmTu
7pmTu
8pmTu
9pmTu
10pmTu



f NWSGray

weather.gov/gyx

Ending Time

Winter Precipitation End Time

Valid 1 PM Tue Jan 09, 2024 through 7 AM Thu Jan 11, 2024 EST

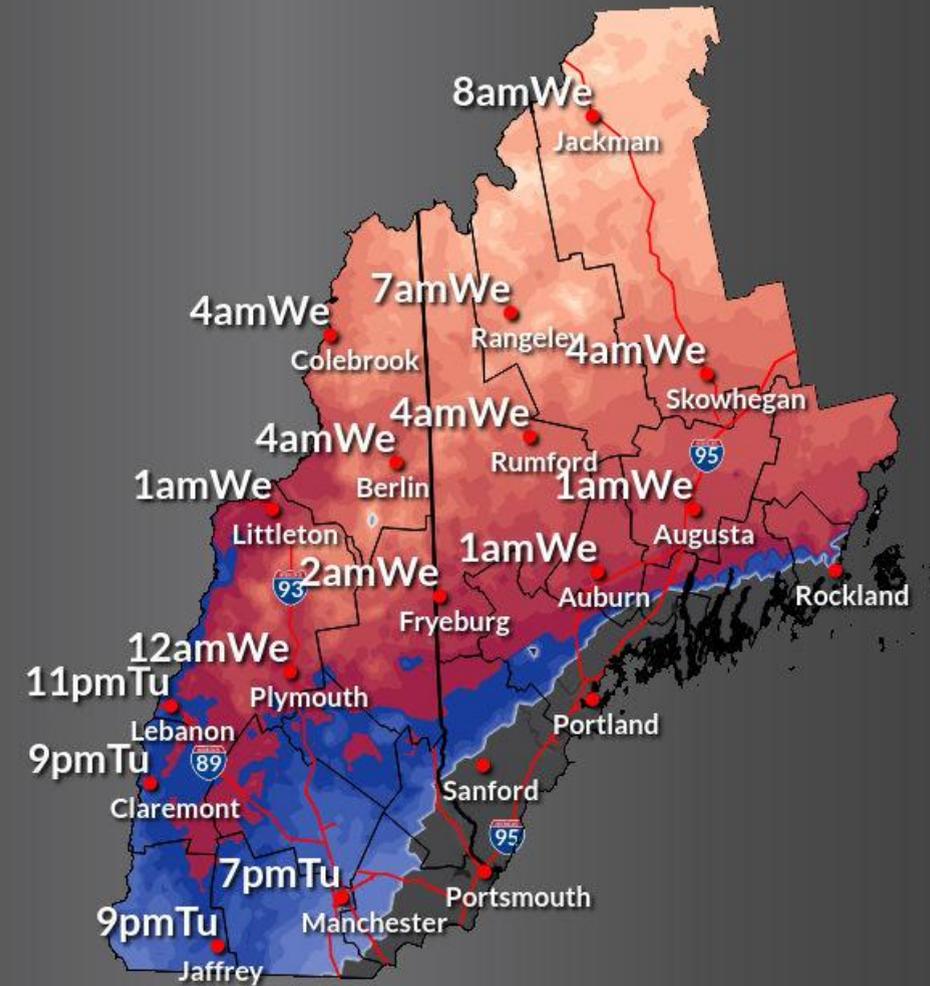
Weather Forecast Office
Gray, ME

Issued Jan 09, 2024 4:12 AM EST



End Time

6pmTu	4amWe
7pmTu	5amWe
8pmTu	6amWe
9pmTu	7amWe
10pmTu	8amWe
11pmTu	9amWe
12amWe	10amWe
1amWe	11amWe
2amWe	12pmWe
3amWe	6pmWe



f NWSGray

weather.gov/gyx



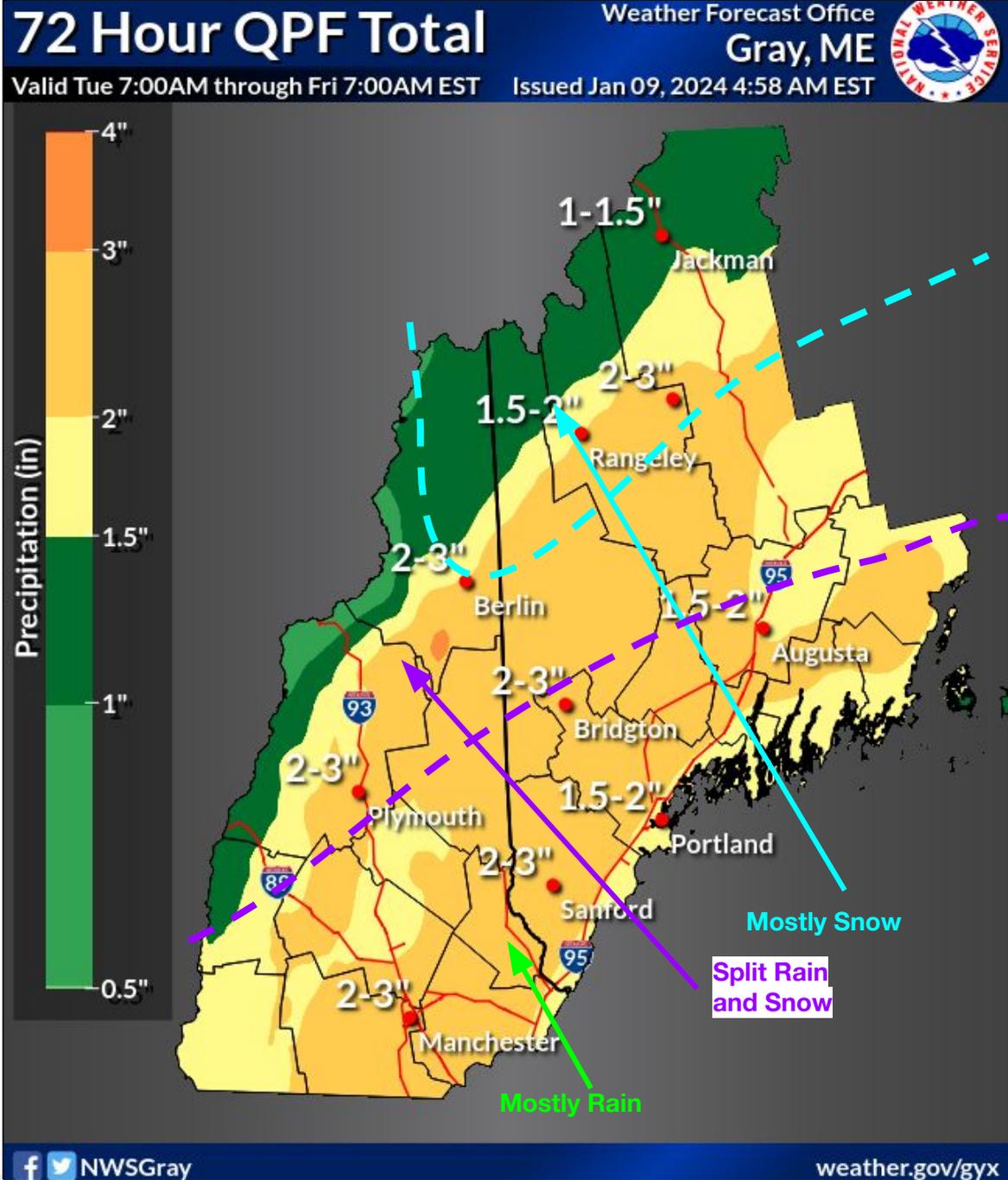
National Oceanic and Atmospheric Administration
U.S. Department of Commerce

National Weather Service
Gray-Portland, ME



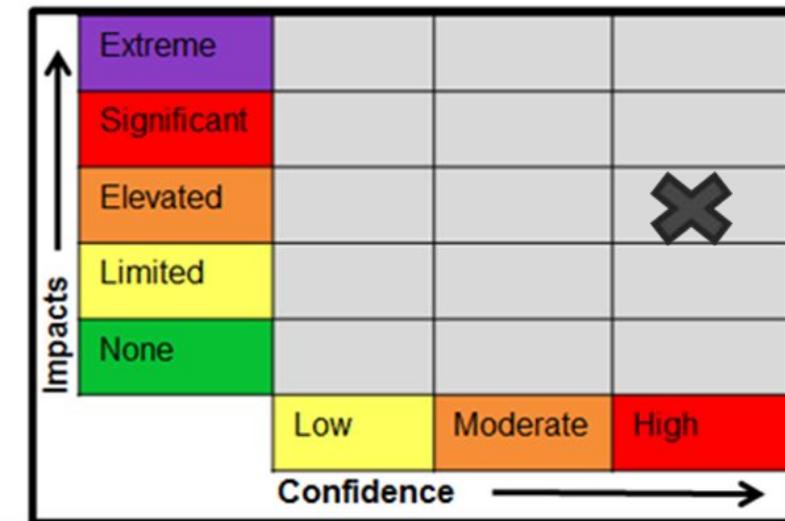
Rainfall Forecast

January 9, 2024
5:46 AM



Key Messages

- Not all precipitation (shown in graphic) from the event will fall as pure rain.
- Rainfall rates peak Wednesday morning
- Snow is expected to melt out across most of the Flood Watch area, adding 0.5-1" of liquid runoff
- For the most up to date rainfall map visit <https://www.weather.gov/gyx/EMhome#Flood>



National Weather Service
Gray-Portland, ME

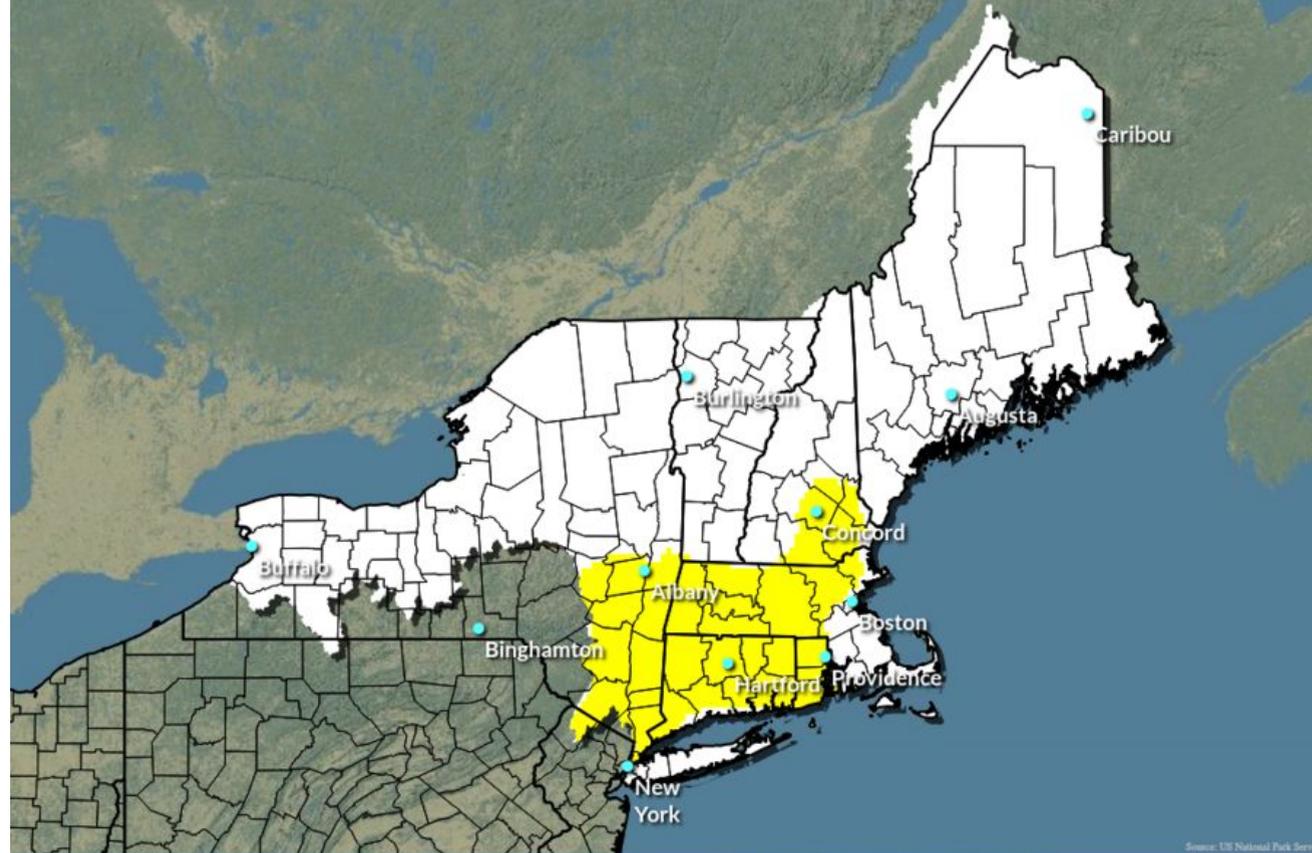




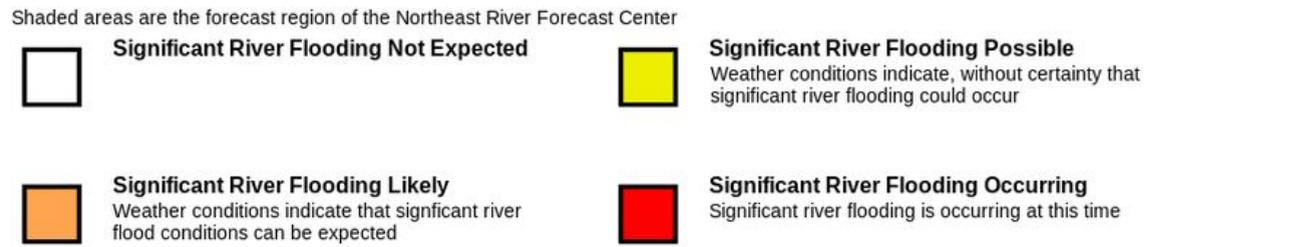
Flood Outlook

January 9, 2024
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5 Day Significant Flood Outlook
Valid Mon 7:00AM through Sat 7:00AM EST
River Forecast Center
Northeast RFC
Issued Jan 08, 2024 12:21 PM EST



Significant River Flooding impacts include road hazards and damage to residential, commercial, and/or agricultural areas. Evacuation may be required. Flash flooding or Minor river flooding are NOT included in this outlook. Check your local weather forecast frequently for the most up-to-date information for your area.



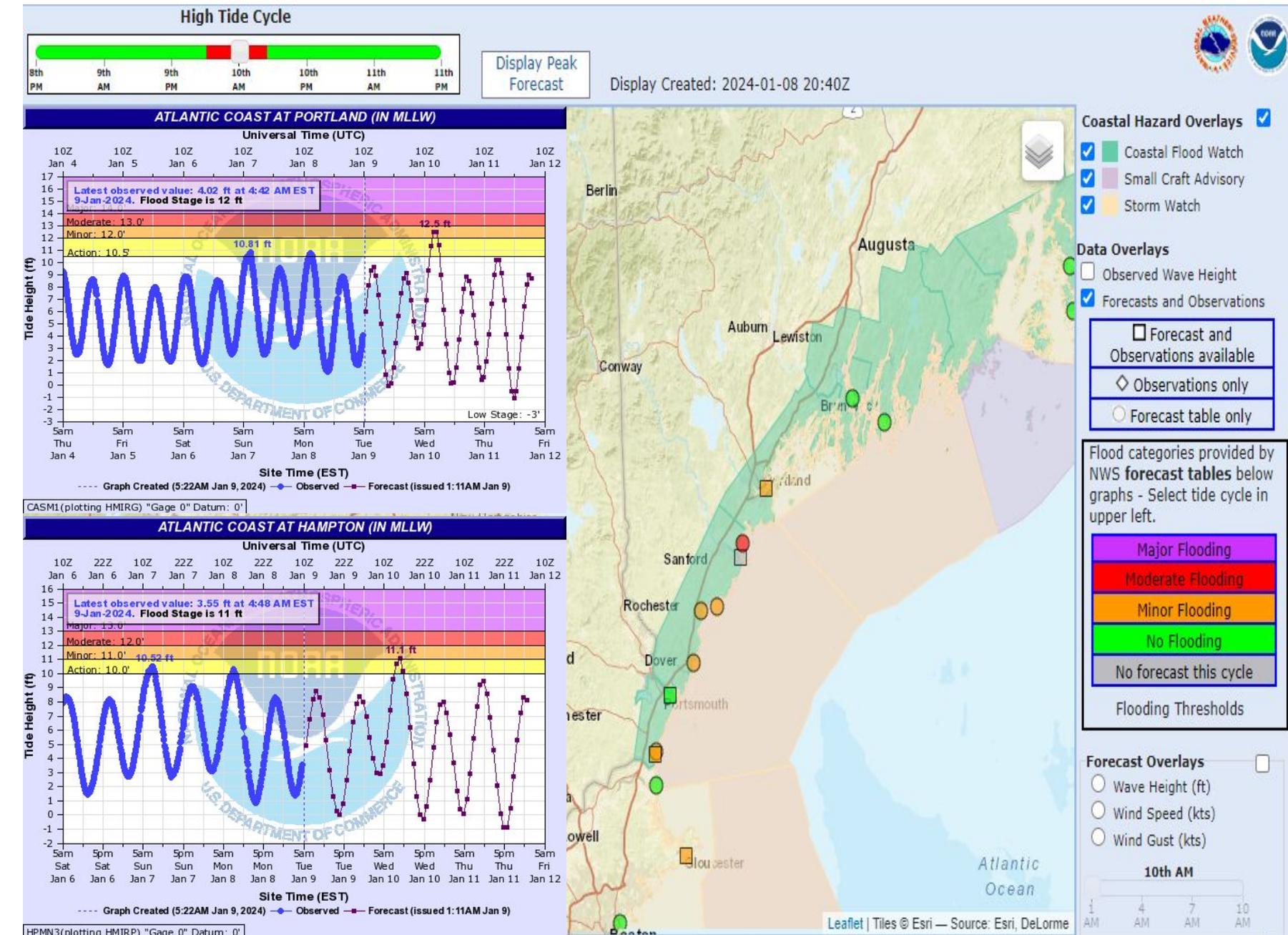
Key Messages

- The combination of rainfall, snowmelt, and antecedent conditions will support **urban and small stream flooding** in the watch area.
- Minor river flooding may occur, especially south of the mountains along the smaller coastal river basins. Fast responding small streams are also likely to come out of their banks.
- Minimal or no property damage, but possibly some public threat like inundation of roads and overwhelmed culverts.
- **Keep Storm Drains Clear!**



Coastal Flooding

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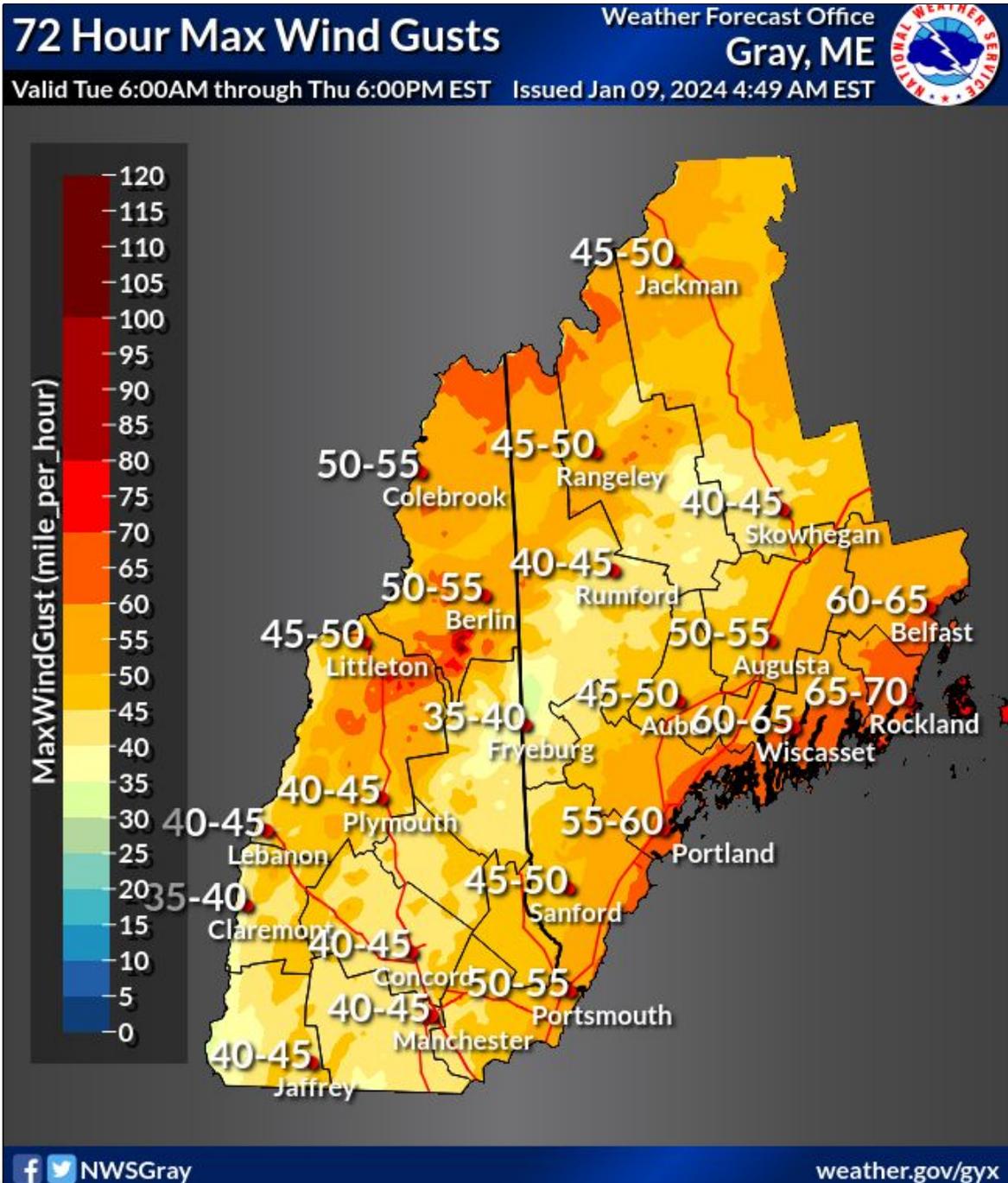
Key Messages

- Minor to locally moderate inundation flood impacts expected in harbor areas with minor to moderate wave action impacts
- Wednesday Morning High Tide is the tide of concern (10.3 MLLW Portland)
- Storm Surge levels up to 3 feet
- Inundation water levels up to 1 to 1.5 ft
- Near shore wave heights of 15-20 feet with a southeast onshore flow
- Wave Action impacts will be minor to localized moderate with debris on roads and dune erosion.



Peak Wind Gusts Expected

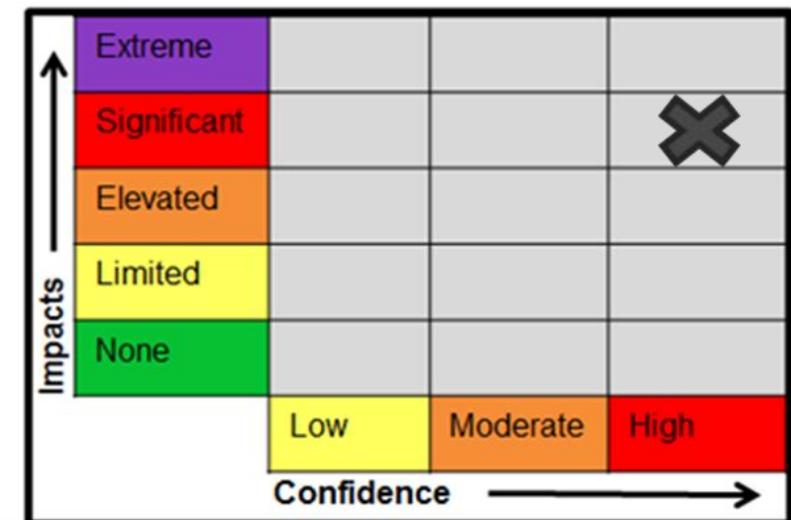
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Key Messages

- Threat for power outages with damaging onshore south easterly wind gusts expected.
- Confidence is lowest for wind speeds north of I-95 where the freshly fallen snow could help lower wind gusts.
- Locally higher winds on Lee-side of Whites
- Window for damaging wind in the area will be Late Tuesday night into Wednesday morning.
- Numerous downed branches are expected along with some snapped and uprooted trees.
- Weight of wet fallen snow on trees will contribute to damage.

- For the most up to date wind map visit <https://www.weather.gov/gyx/EMhome>



National Weather Service
Gray-Portland, ME



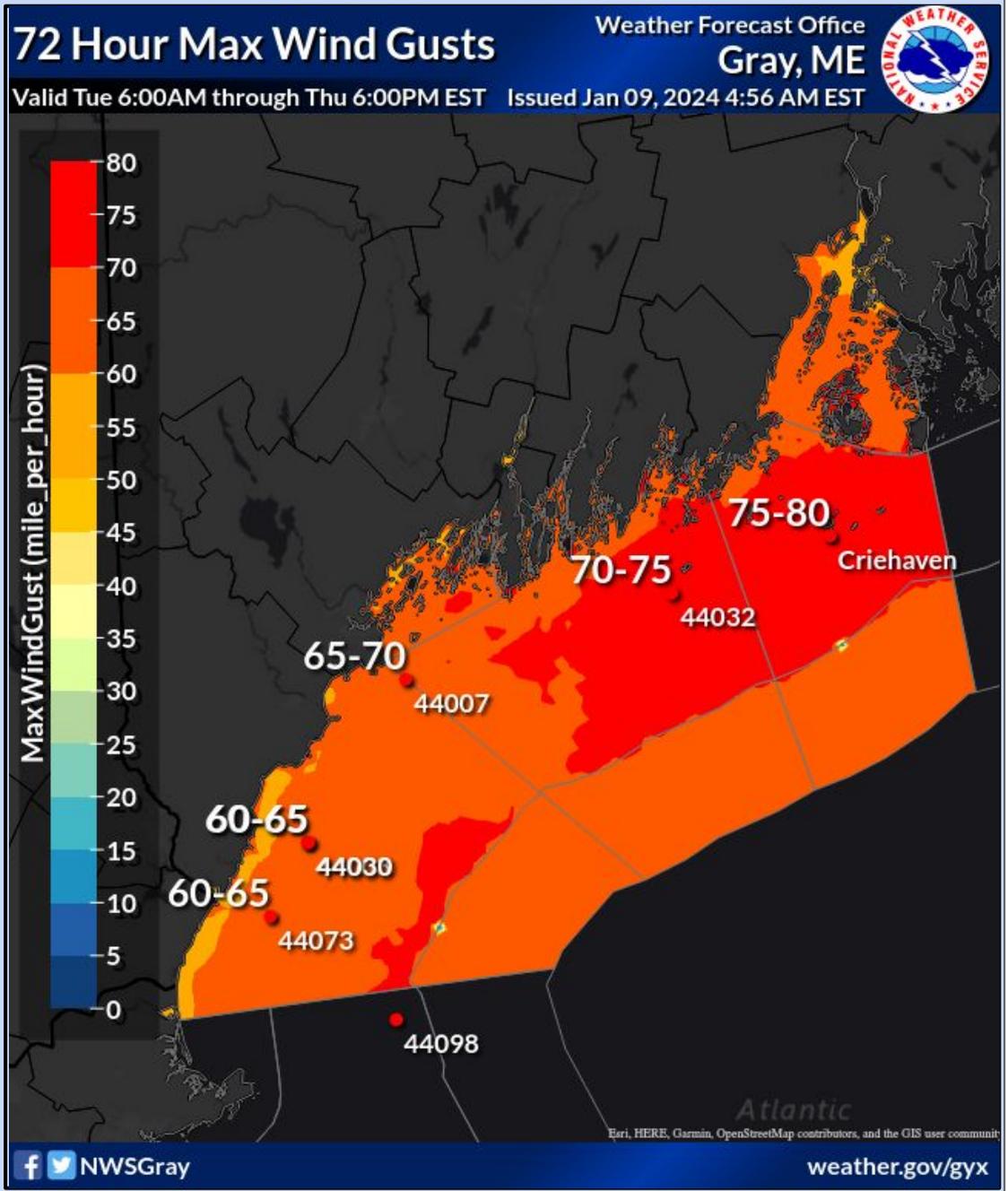


Marine Hazards

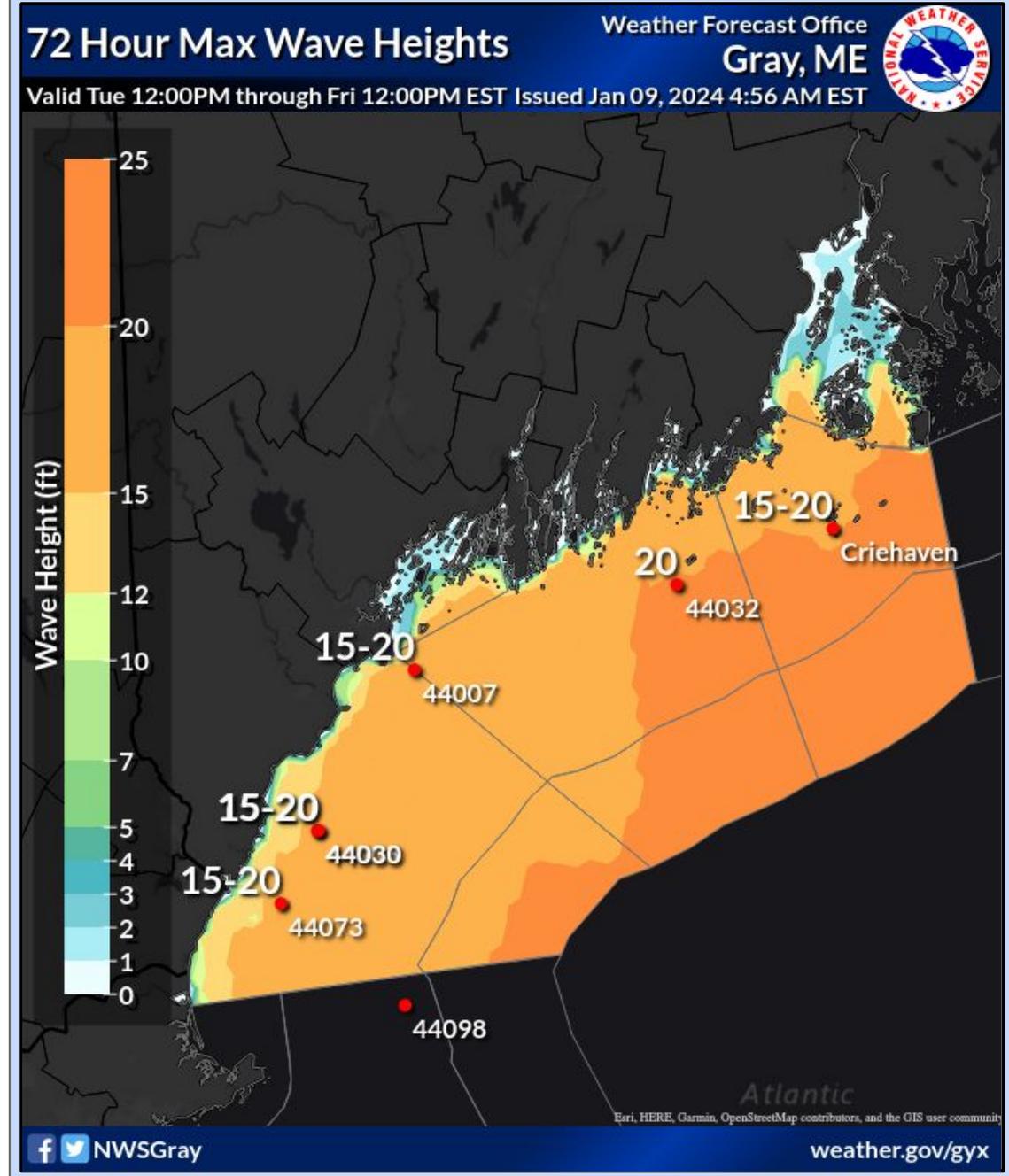
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Storm Watch and Hurricane Force Wind Watch

Peak
Wind
Gusts
Expected



Peak
Wave
Heights
Expected





Event Summary

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Key Messages

- Multi-faceted storm will bring impacts to the area
- Period of greatest impact: Late Tuesday night through Wednesday afternoon
- Recovery Conditions: Wednesday night around 30F, SW winds 25 mph. Thursday SW winds 20 mph, highs in 30s.

What We Are Certain Of:

- Strong winds and heavy rain along with a period of heavy snow in mountains

What We Are Less Certain Of:

- How far inland strong winds penetrate
- If moderate coastal impacts occur

	<ul style="list-style-type: none"> • Heavy, wet snow for foothills to mountains. Warnings and Advisories have been issued. • Snow transitions to rain with an intermediate period of wintry mix possible before the storm exits
	<ul style="list-style-type: none"> • Urban and small stream flooding is the biggest concern, especially where snow clogs drains • Minor river flooding is possible on coastal river systems
	<ul style="list-style-type: none"> • Storm Warning for bays/harbors and coastal waters up to Port Clyde • Hurricane Force Wind Warning for coastal waters north of Port Clyde
	<ul style="list-style-type: none"> • Magnitude of impacts will rely on the timing of greatest surge with the timing of the high tide cycle. • Minor to possible low end moderate coastal flood impacts are expected. • Inundation up to a 1 - 1.5 feet possible, debris on roads and coastal erosion impacts expected
	<ul style="list-style-type: none"> • Damaging winds possible with strongest gusts on the coast and northwest of the Whites. • Downed branches and uprooted trees are possible with threat for more power outages.



Contact and Next Briefing Information

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For New Hampshire and Western Maine



Briefing Webpage

- www.weather.gov/gyx/EMhome
- www.weather.gov/gyx/winter



Next Briefing

- By 5:00 PM Tuesday, 1/9/2024
- Method: Email



Disclaimer

- Information contained in this briefing is time-sensitive
- Do Not Use After: 5:00 PM Tuesday, 1/9/2024



Contact Information

Web

- www.weather.gov/gyx

Phone (public)

- (207) 688-3216

Email

- gyx.skywarn@noaa.gov

Facebook

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

Twitter

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