



# Coastal Storm Briefing

January 12, 2024  
10:00 AM

Prepared by National Weather Service Wakefield, VA

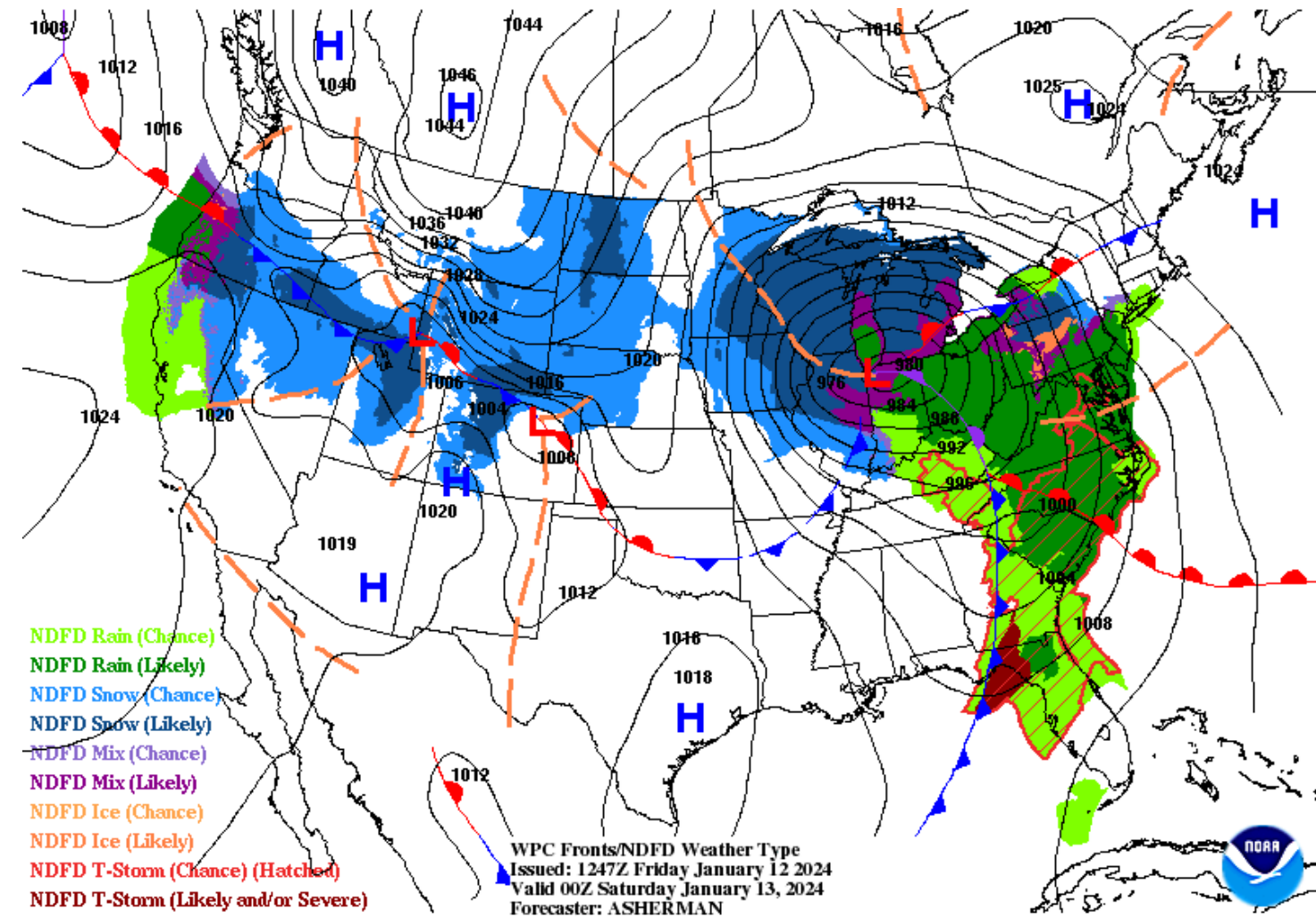
## Decision Support Briefing #1

→ As of 10:00 AM EST  
Friday, January 12, 2024

NEW

### Important Updates

- A Flood Watch is in effect for locations roughly along and west of Interstate 95.
- Coastal Flood Warnings are in effect for bayside portions of the lower Maryland Eastern Shore
- Coastal Flood Advisories are in effect for locations along the Northern Neck and along the Albemarle/Currituck Sound.



*Disclaimer: Information may become outdated after briefing time. Consult [weather.gov/wakefield](https://weather.gov/wakefield) for the latest information.*



National Oceanic and  
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Wakefield, VA



# Key Messages

January 12, 2024  
10:00 AM

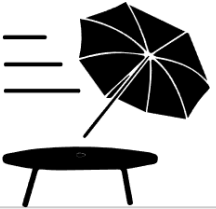




- A storm system brings another round of heavy rain, gusty winds, coastal flooding to the region this evening into tonight.
- There is a risk for severe thunderstorms late this evening into tonight across far southern and southeastern portions of the area. Damaging wind gusts and isolated tornadoes are the main threats with any stronger thunderstorms.
- An additional 0.50 to 0.75" of rain is possible with this system, with the highest amounts likely along and west of I-95. Instances of localized flooding cannot be ruled out, especially due to the already very saturated soils.
- Moderate (to locally major) coastal flooding is expected across the bayside of the Lower Maryland Eastern Shore. Nuisance to minor flooding is expected across the remainder of the northern Bay/tidal Potomac and along the northern shore of the Albemarle Sound in North Carolina.
- Looking ahead: Another storm system develops Monday night into Tuesday, bringing the potential for accumulating snow to portions of the forecast area.





# Summary of Greatest Impacts

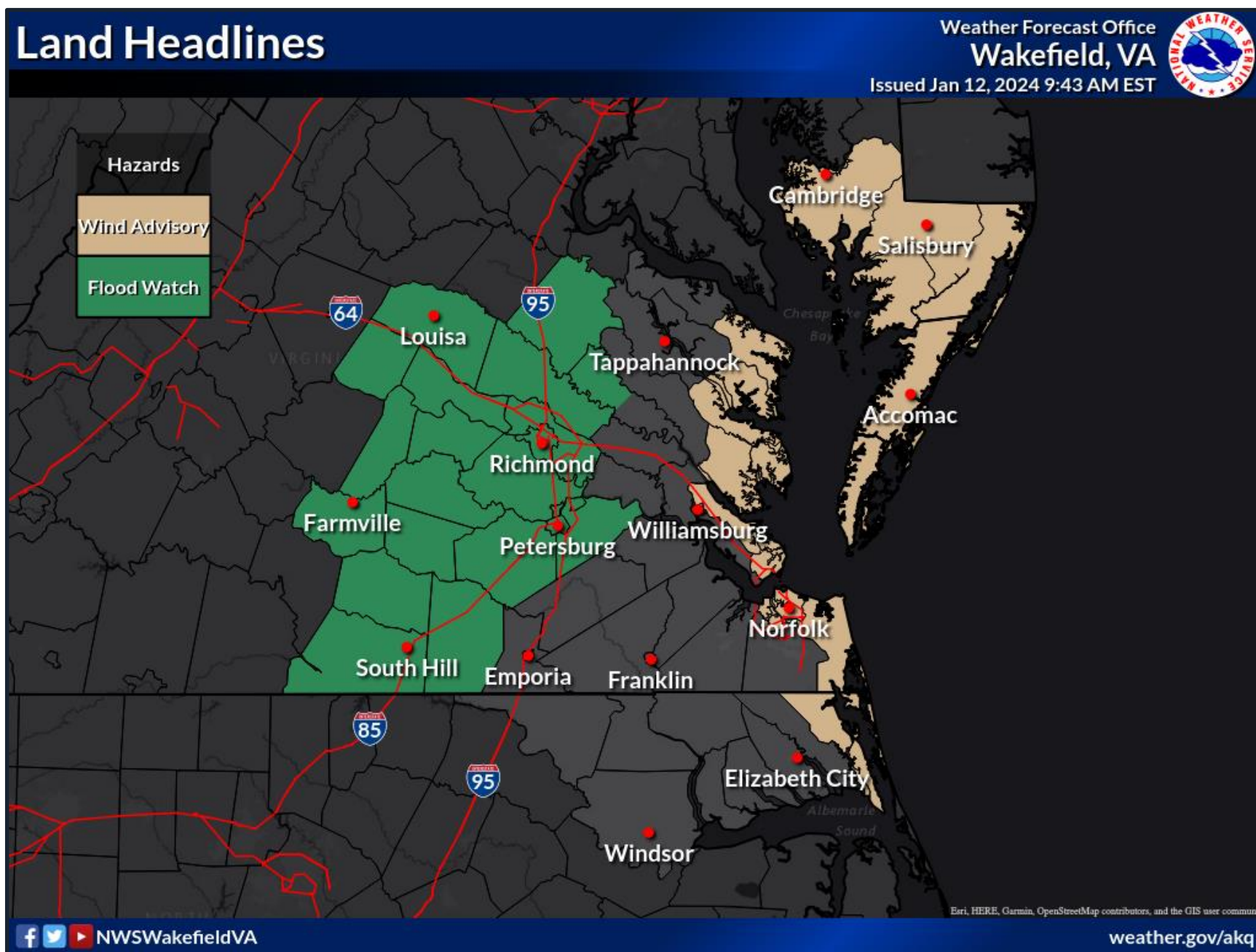
January 12, 2024  
10:00 AM

Hazard	Impacts	Location	Timing
 <b>High Wind</b>	Localized power outages/difficult travel for high profile vehicles/localized damaging wind gusts from storms	Highest along/near the coast, but a few stronger wind gusts cannot be ruled out farther inland	Late this afternoon into tonight
 <b>Severe Thunderstorms</b>	Damaging wind gusts to 60+ mph. An isolated tornado cannot be ruled out	Roughly along and south of I-64 with the highest potential across southern Virginia and northeast North Carolina	Late this evening into the early overnight hours
 <b>Heavy Rain/Flooding</b>	Localized flash flooding is possible due to wet soil conditions. Rivers will remain elevated due to the additional rain	Roughly along/west of I-95 has the best potential to see localized flooding	Late this afternoon into tonight
 <b>Coastal Flooding</b>	Water level rises of up to 2 feet above normal will bring the potential for moderate to locally major tidal flooding	Upper Chesapeake Bay/Southern Shore of the Tidal Potomac/Northern Shore of the Albemarle Sound and Adjacent Waterways	Tonight for the Albemarle Sound and tonight into tomorrow elsewhere
 <b>Marine</b>	Gale force wind gusts and high seas will lead to dangerous marine conditions	All waters coastal and nearshore waters	This evening into tomorrow



# Hazard Overview

January 12, 2024  
10:00 AM



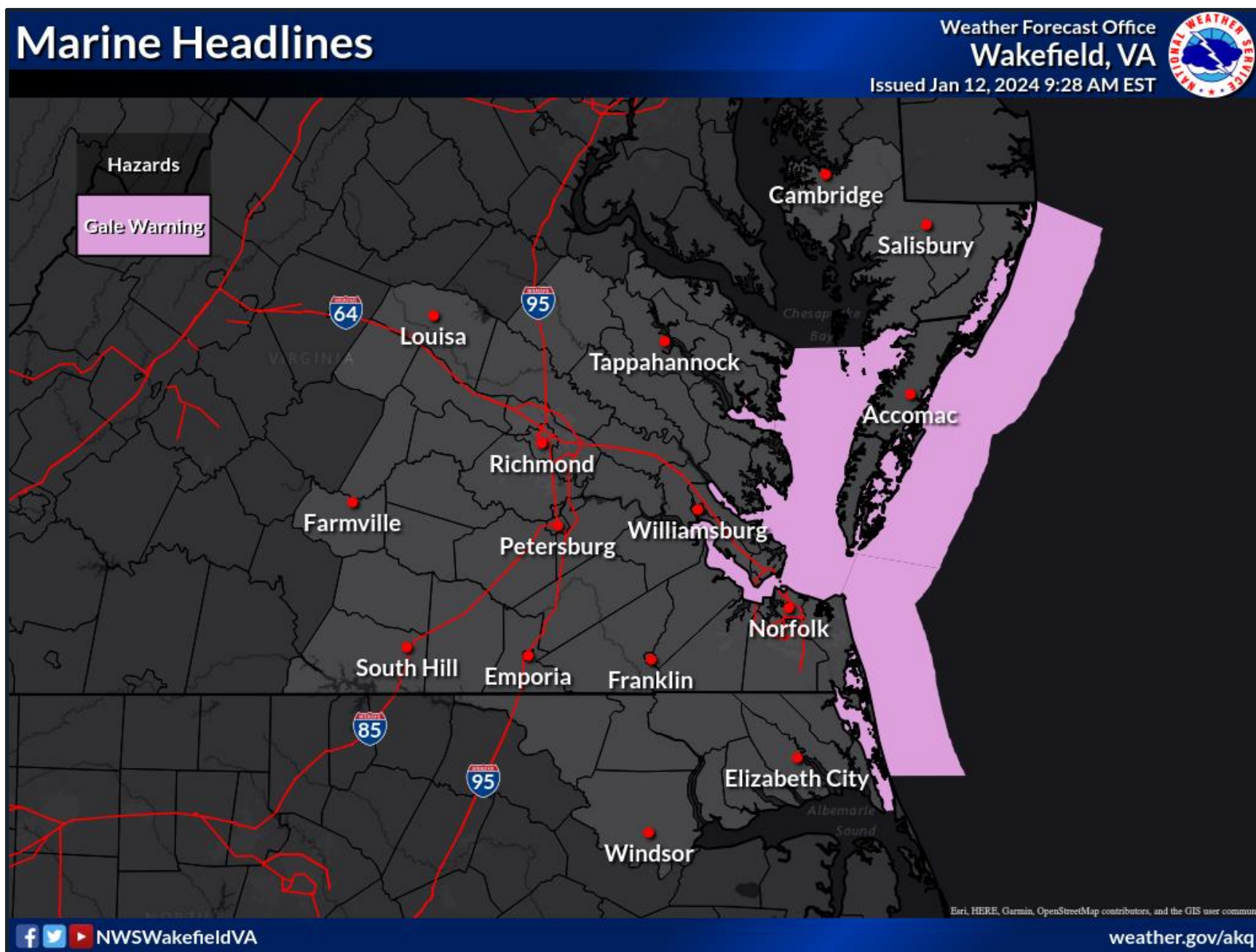
- A Flood Watch is in effect this evening into tonight for roughly along and west of I-95
- Localized flash flooding is possible due to wet soil conditions
- Wind Advisories are in effect along and near the immediate coast
- See [www.weather.gov/akq](http://www.weather.gov/akq) for the latest information





# Hazard Overview

January 12, 2024  
10:00 AM



- Gale Warnings are in effect for all waters starting this evening into Saturday.
- See [www.weather.gov/akq](http://www.weather.gov/akq) for the latest information



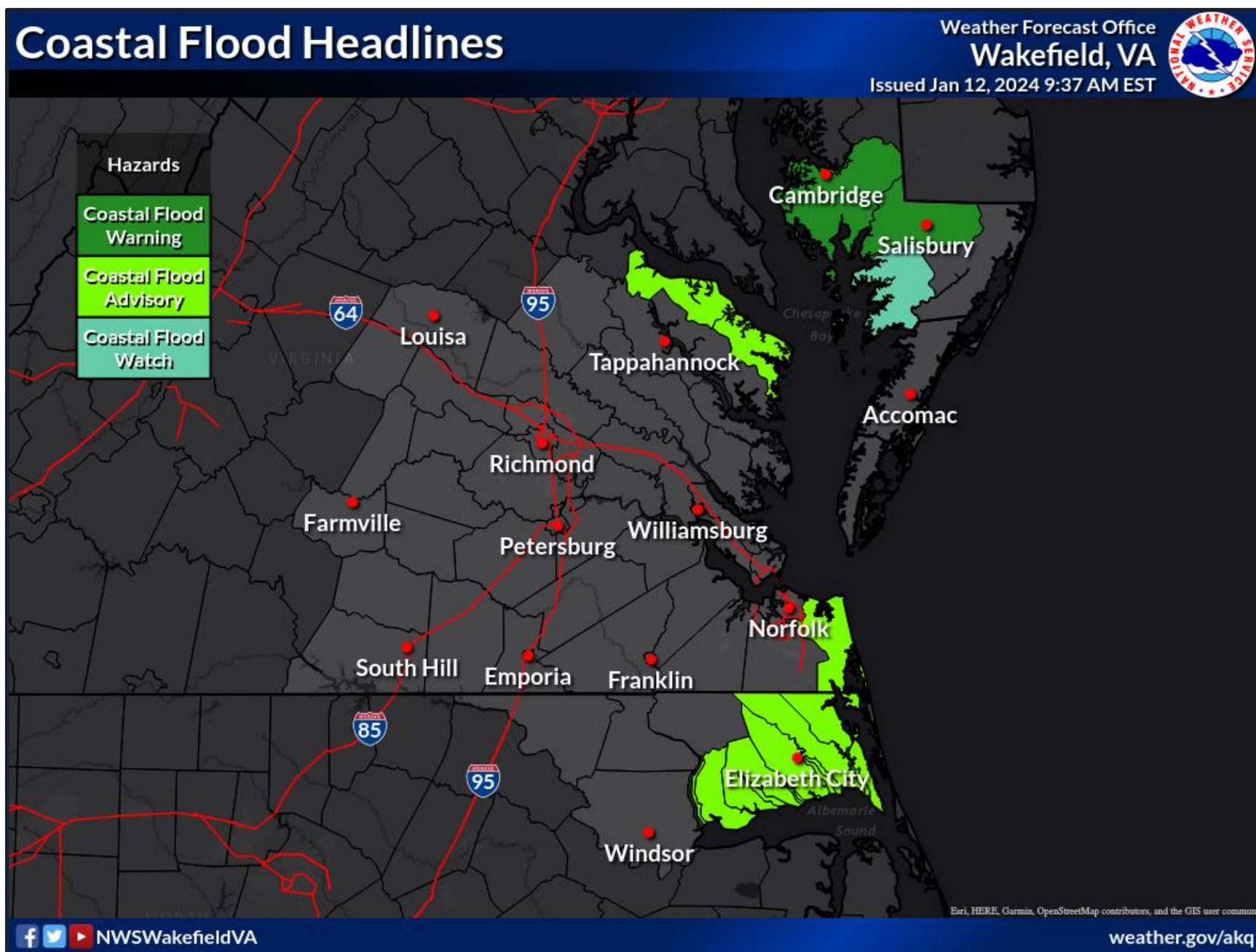
National Oceanic and  
Atmospheric Administration  
U.S. Department of Commerce

National Weather Service  
Wakefield, VA



# Hazard Overview

January 12, 2024  
10:00 AM



- Coastal Flood Warnings are in effect for the bayside of the lower Maryland Eastern Shore
- Coastal Flood Advisories are in effect for upper Bay/tidal Potomac as well as the northern shore of the Albemarle Sound and adjacent waterways
- High Surf Advisories are in effect for all area beaches
- See [www.weather.gov/akq](http://www.weather.gov/akq) for the latest information



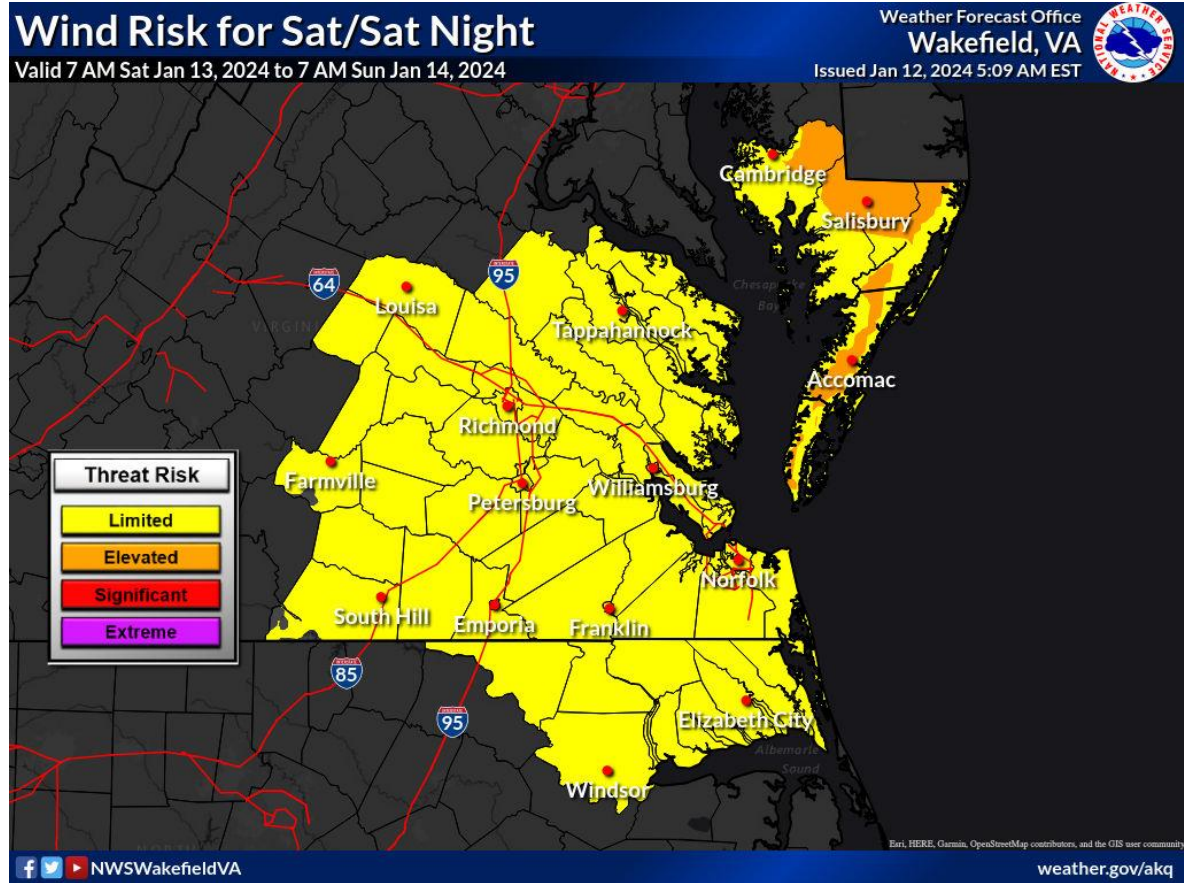
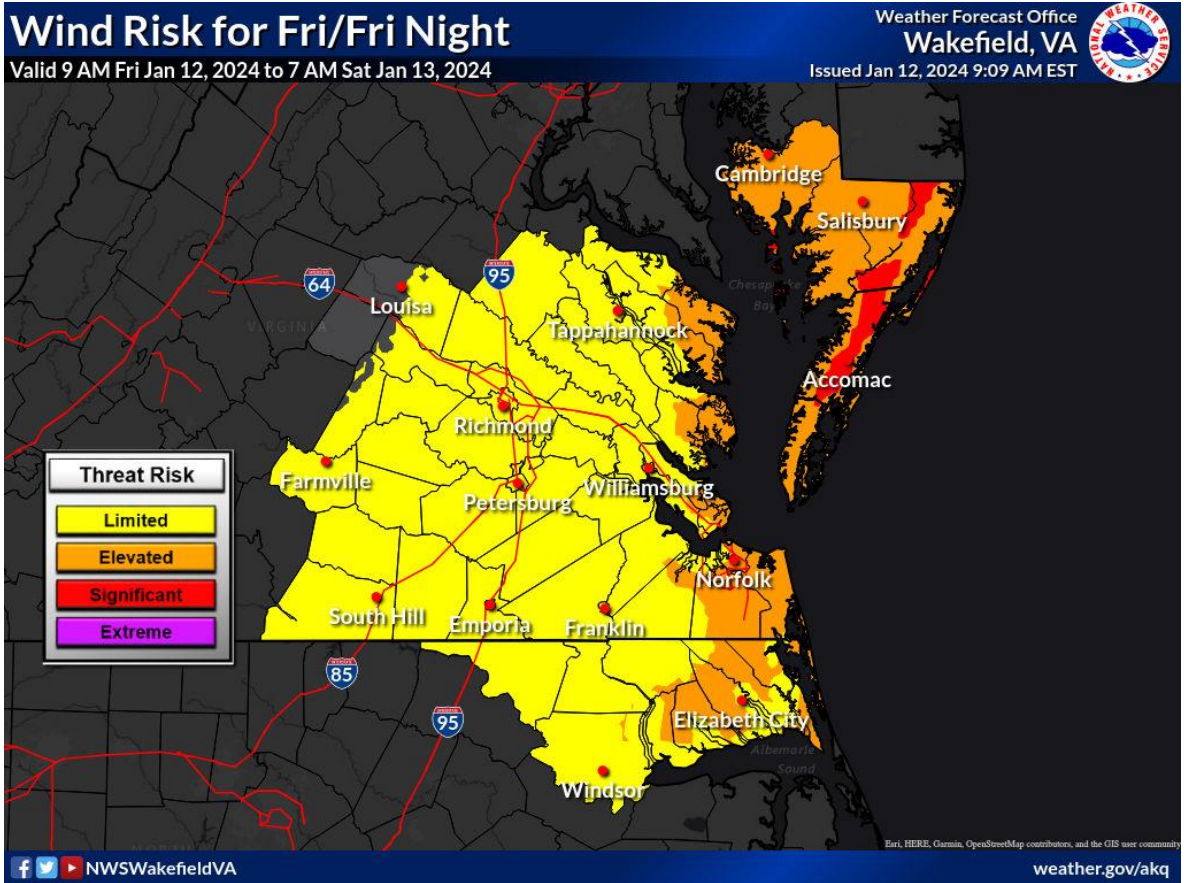
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Wakefield, VA



# High Winds Tonight & Tomorrow

January 12, 2024  
10:00 AM



Limited	Breezy conditions with 30 to 40 mph wind gusts could blow around unsecured items and result in hazardous driving conditions for high-profile vehicles.
Elevated	Windy conditions with 40 to 50 mph wind gusts could damage light outdoor items, cause isolated power outages and result in hazardous driving conditions for high-profile vehicles.
Significant	Very windy conditions with 50 to 60 mph wind gusts could blow down trees, result in some property damage and cause power outages.
Extreme	Extremely windy conditions with wind gusts greater than 60 mph will damage numerous trees, cause property damage in addition to widespread power outages.





# High Wind Potential

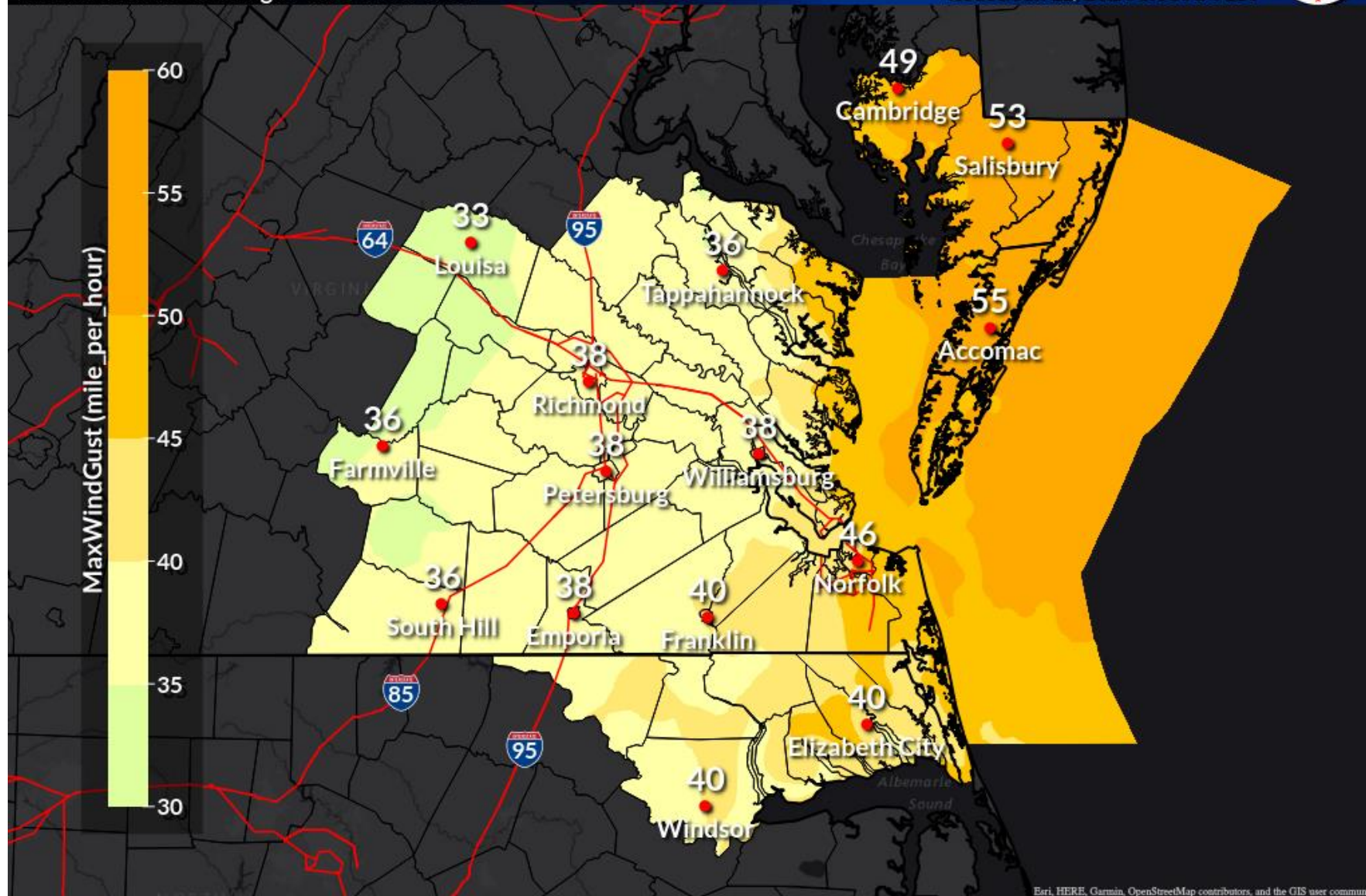
January 12, 2024  
10:00 AM

## Max Wind Gust Through 72 Hrs

Valid Fri 7:00AM through Mon 7:00PM EST

Weather Forecast Office  
Wakefield, VA

Issued Jan 12, 2024 8:30 AM EST



f t NWSWakefieldVA

weather.gov/akq

- Southeast to south winds may gust to as high as 35 to 40 mph inland and 40 to 50+ mph near/along the coast late this evening into tonight
- Localized higher wind gusts in excess of 60 mph will be possible with any severe thunderstorms
- Remaining breezy Saturday with wind gusts of 30 to 40 mph possible



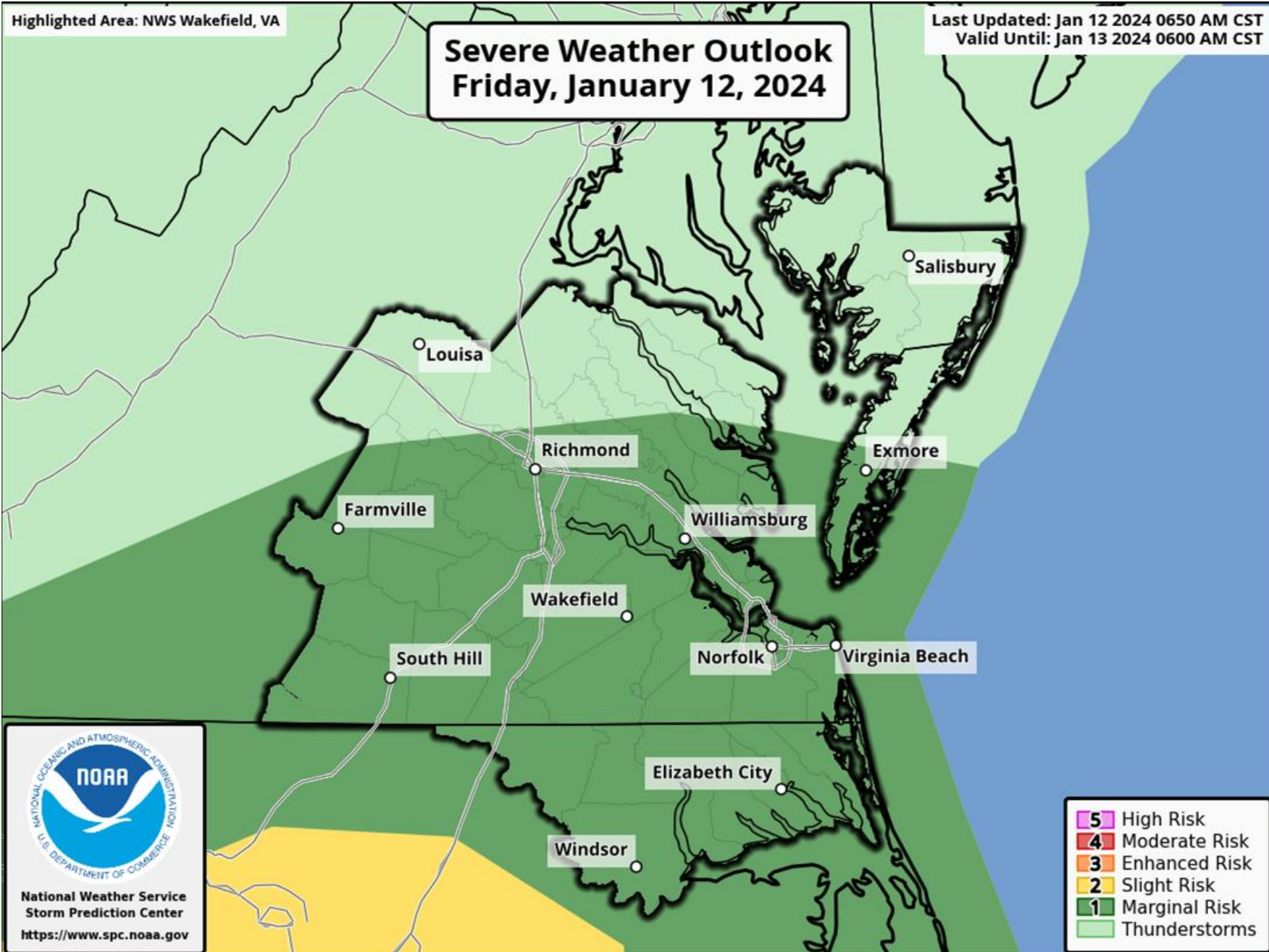
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Wakefield, VA



# Tonight - Severe Weather Outlook

January 12, 2024  
10:00 AM



- **Timing:** Late evening into the early overnight hours (roughly 10 PM until 2 AM)
- **Potential Impacts:** Damaging wind gusts to 60+ mph. An isolated tornado cannot be ruled out
- **Locations:** Roughly along and south of I-64 with the highest risk across southern Virginia and northeast North Carolina

<u>TSTORM</u>	<u>MARGINAL</u>	<u>SLIGHT</u>	<u>ENHANCED</u>	<u>MODERATE</u>	<u>HIGH</u>
No severe storms expected	Isolated severe possible	Scattered severe possible	Numerous severe possible	Widespread severe likely	Widespread severe expected





# Expected Rainfall Forecast

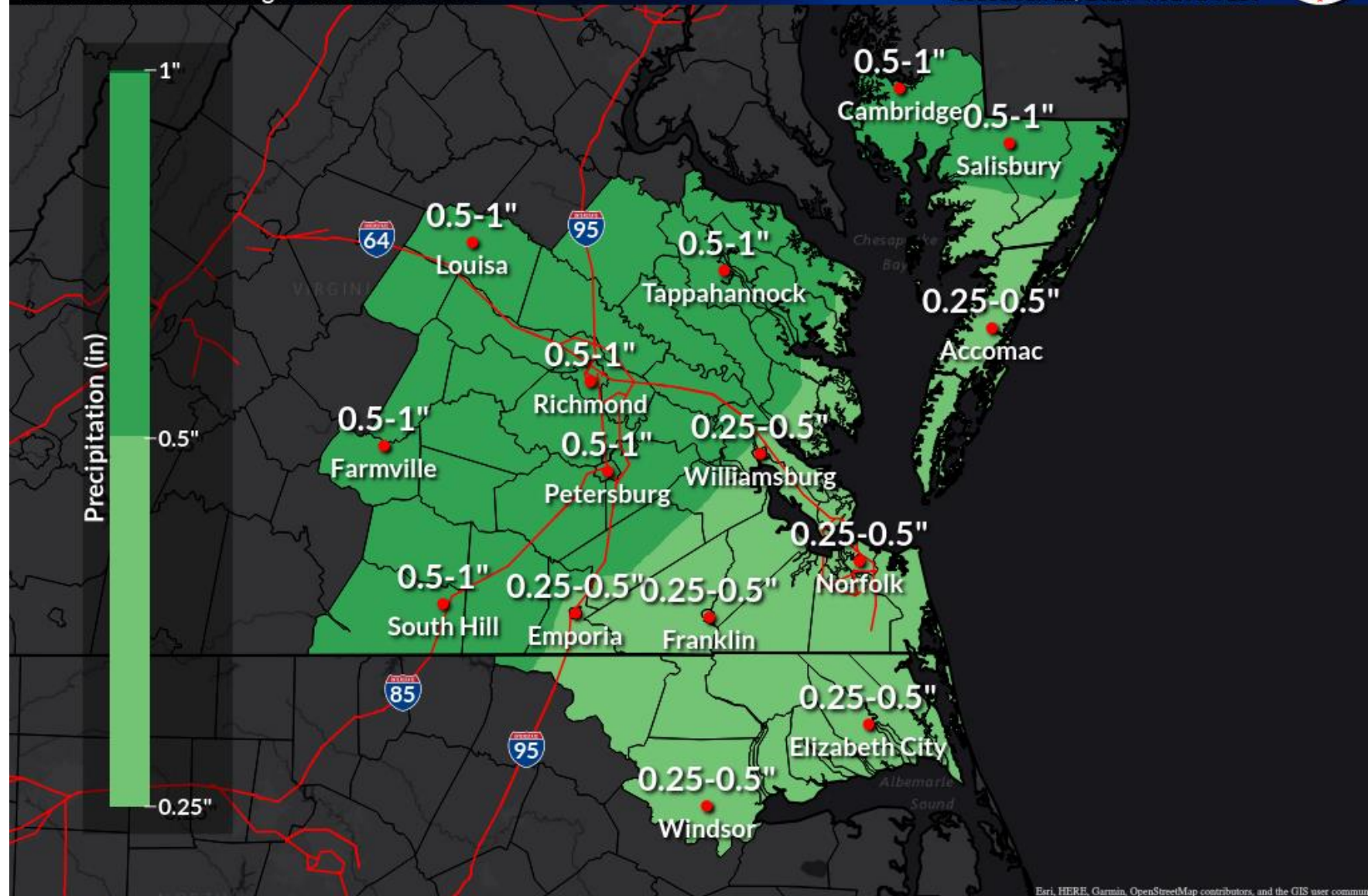
January 12, 2024  
10:00 AM

## 72-hour Precipitation Amount

Valid Fri 7:00AM through Mon 7:00AM EST

Weather Forecast Office  
Wakefield, VA

Issued Jan 12, 2024 4:31 AM EST



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weather.gov/akq

- Moderate rain develops later this afternoon into tonight from west to east
- The highest rain totals will be from roughly along and west of I-95 and extending up into the Maryland Eastern Shore
- Localized flash flooding cannot be ruled out due to the already very saturated soils



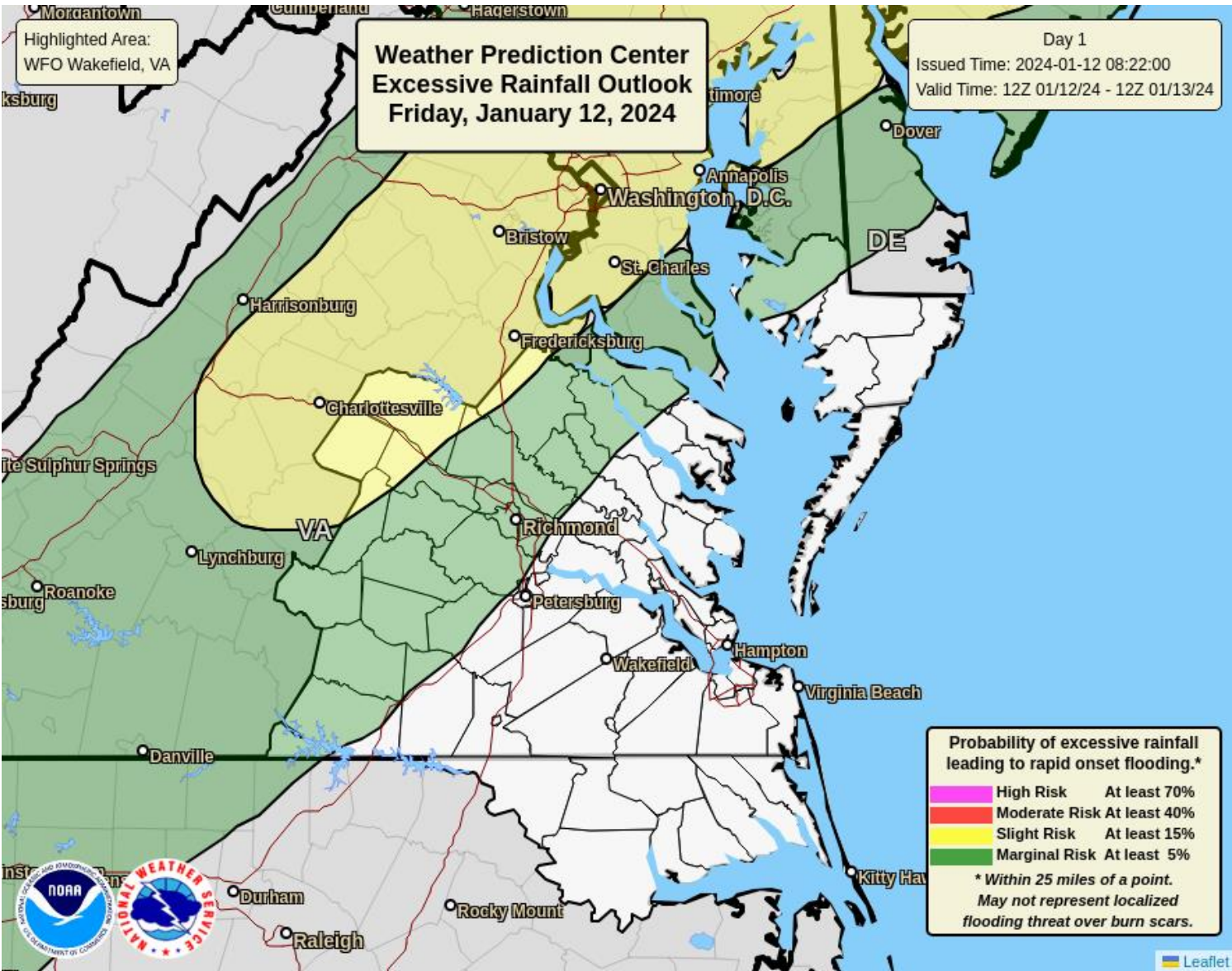
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U.S. Department of Commerce

National Weather Service  
Wakefield, VA



# Flood Threat - Today and Tonight

January 12, 2024  
10:00 AM



- Moderate rain develops later this afternoon into tonight from west to east
- The highest rain totals will be from roughly along and west of I-95 and extending up into the Maryland Eastern Shore
- Localized flash flooding cannot be ruled out due to the already very saturated soils

**MARGINAL**  
Isolated  
flash floods  
possible

**SLIGHT**  
Scattered  
flash floods  
possible

**MODERATE**  
Numerous  
flash floods  
likely

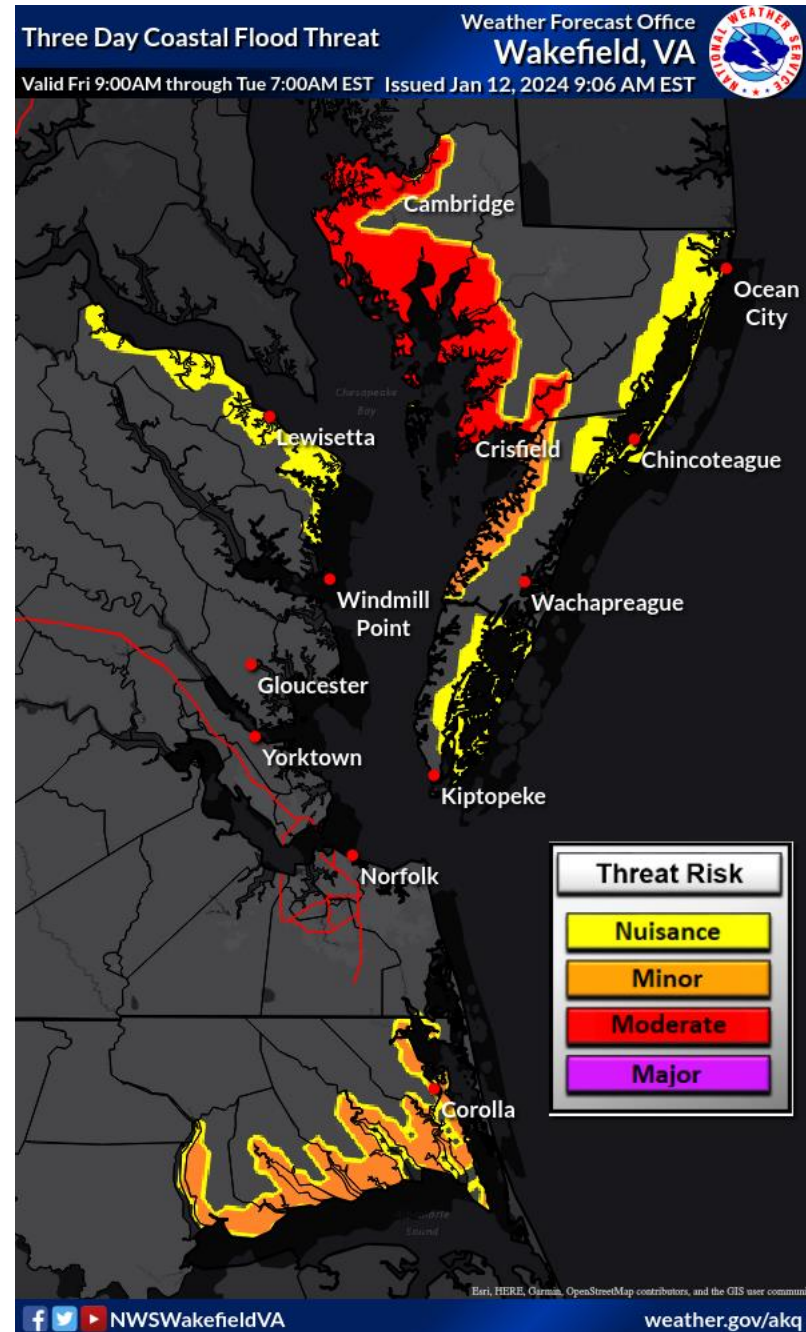
**HIGH**  
Widespread  
flash floods  
expected





# Tidal Flooding Overview

January 12, 2024  
10:00 AM



- Strong southeast winds will again push water up the Chesapeake Bay and the northern shore of the Albemarle Sound this evening into tonight
- Moderate (locally major) tidal flooding is expected for the bayside of the lower Maryland Eastern Shore. Nuisance to minor tidal flooding is expected for the remainder of the northern Bay/Potomac
- Nuisance to minor tidal flooding is possible for the northern shore of the Albemarle Sound and adjacent tidal rivers

[Coastal Flood Webpage](#)



National Oceanic and  
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U.S. Department of Commerce

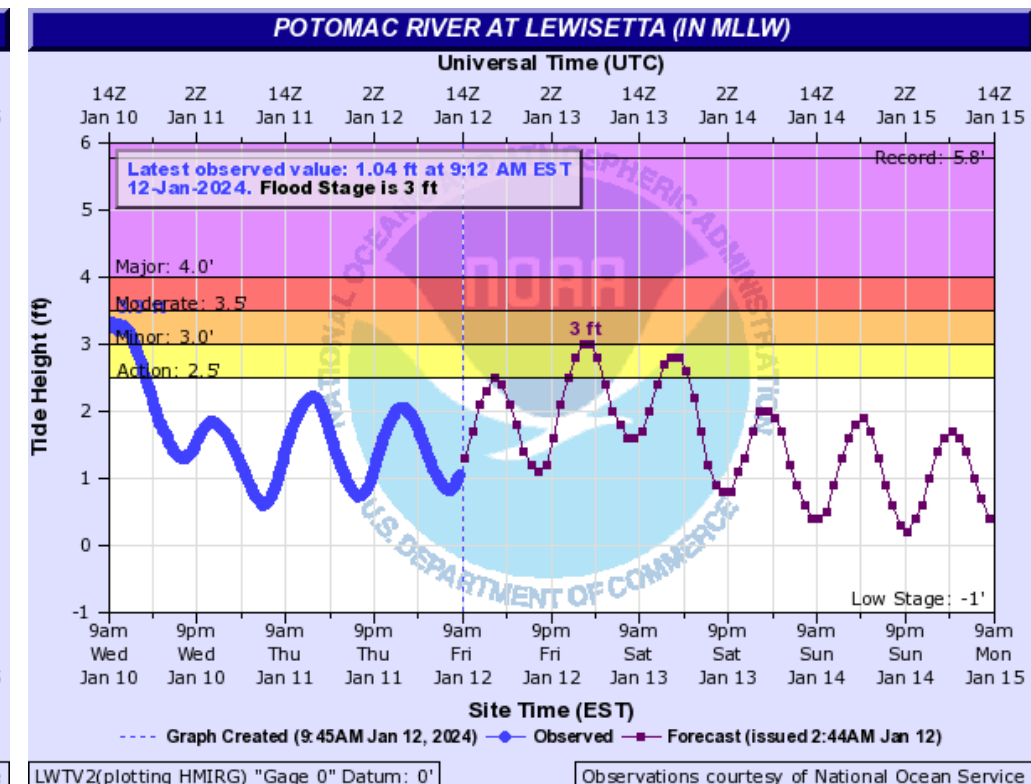
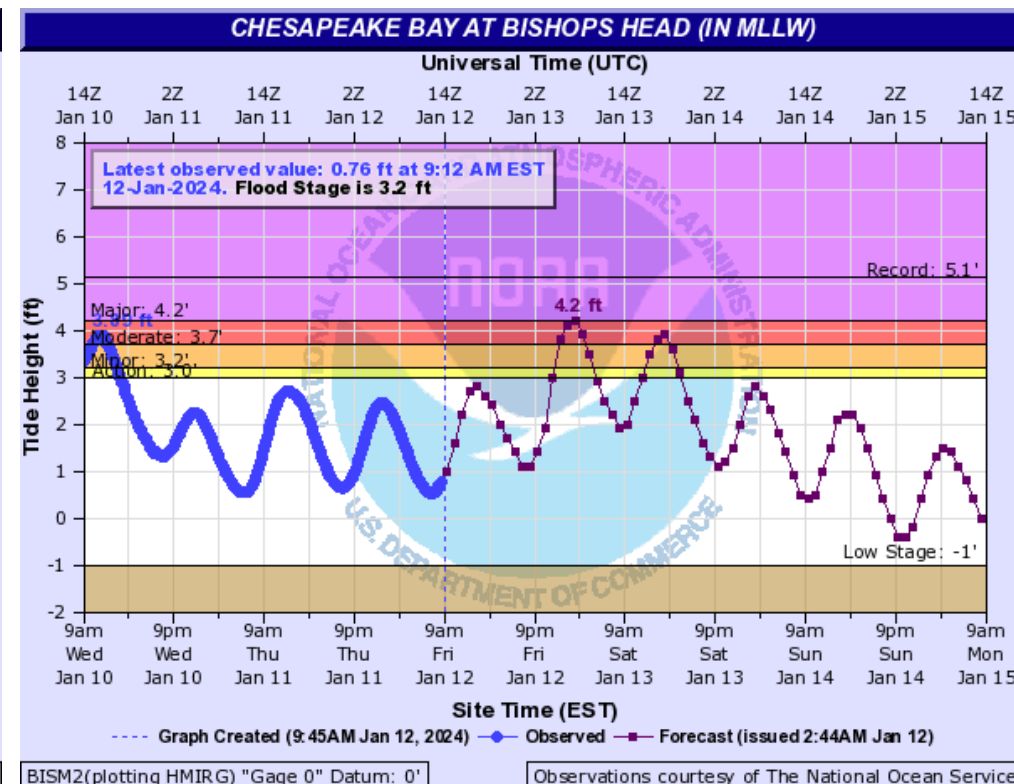
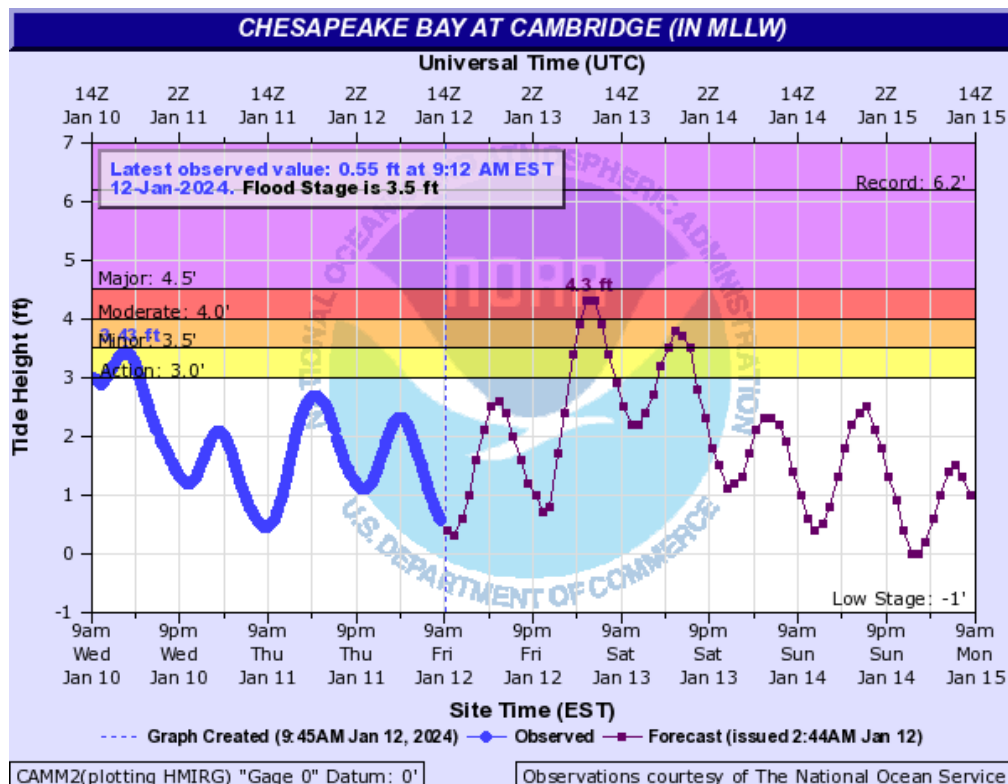
National Weather Service  
Wakefield, VA



# Tidal Overview - Upper Bay

January 12, 2024  
10:00 AM

Note: All forecasts reference Mean Lower Low Water (MLLW).



## Summary of Tidal Trends

- Moderate to locally major (best chance at Bishops Head, MD) tidal flooding is likely over portions of the upper Chesapeake Bay and adjacent tidal rivers.
- Up to 2 feet of inundation will result in widespread flooding of vulnerable areas will result in elevated threat of property damage.

[Coastal Flood Webpage](#)



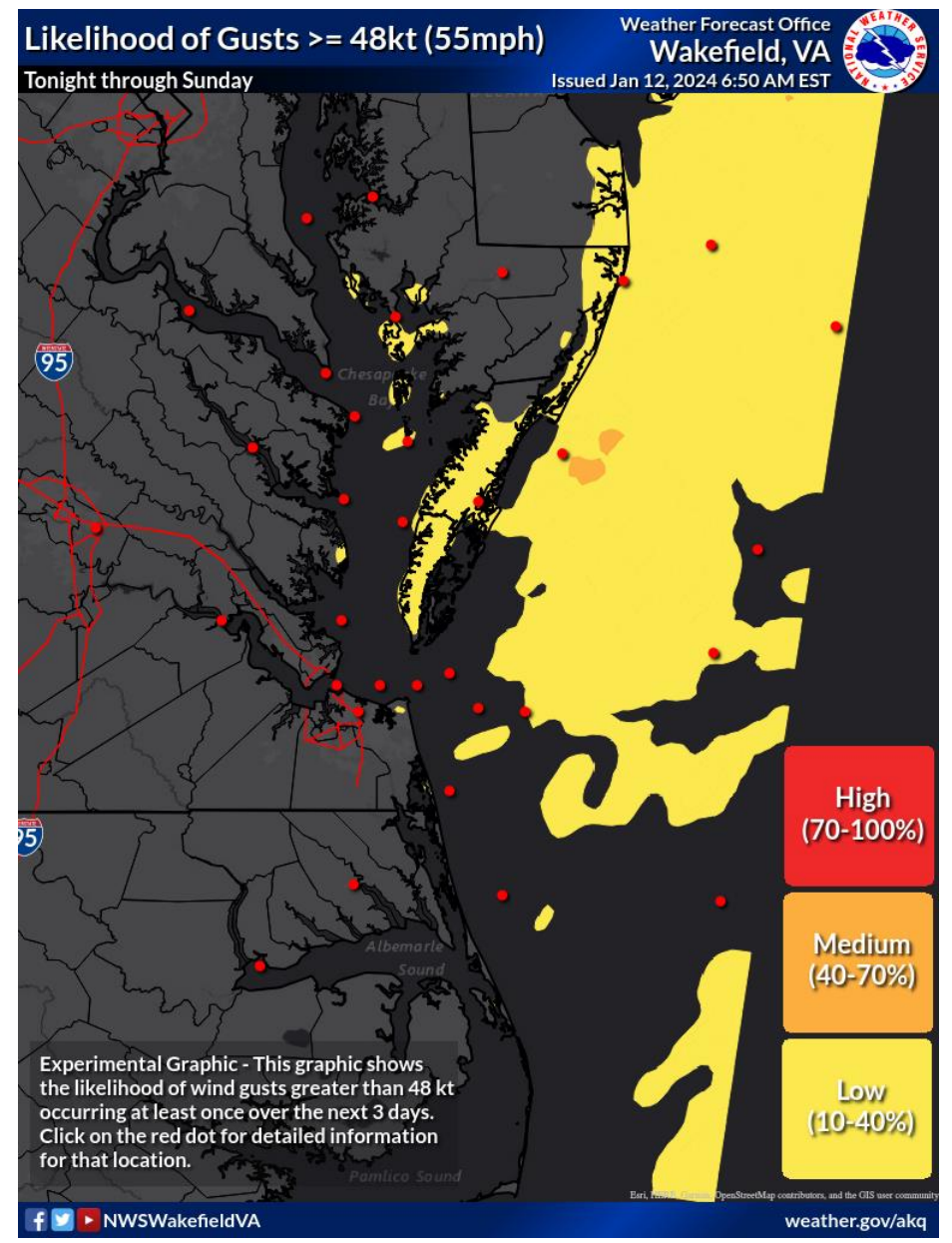
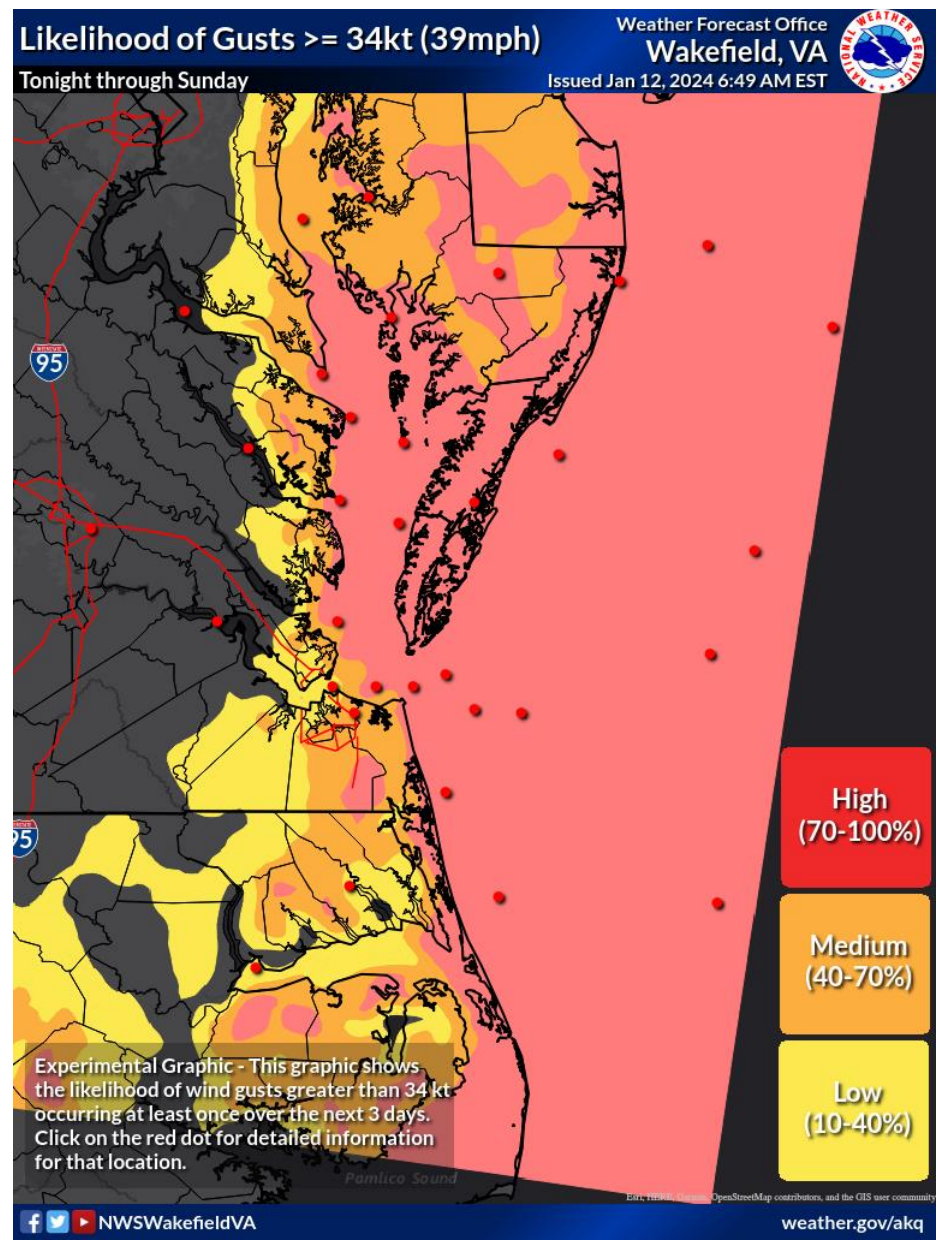
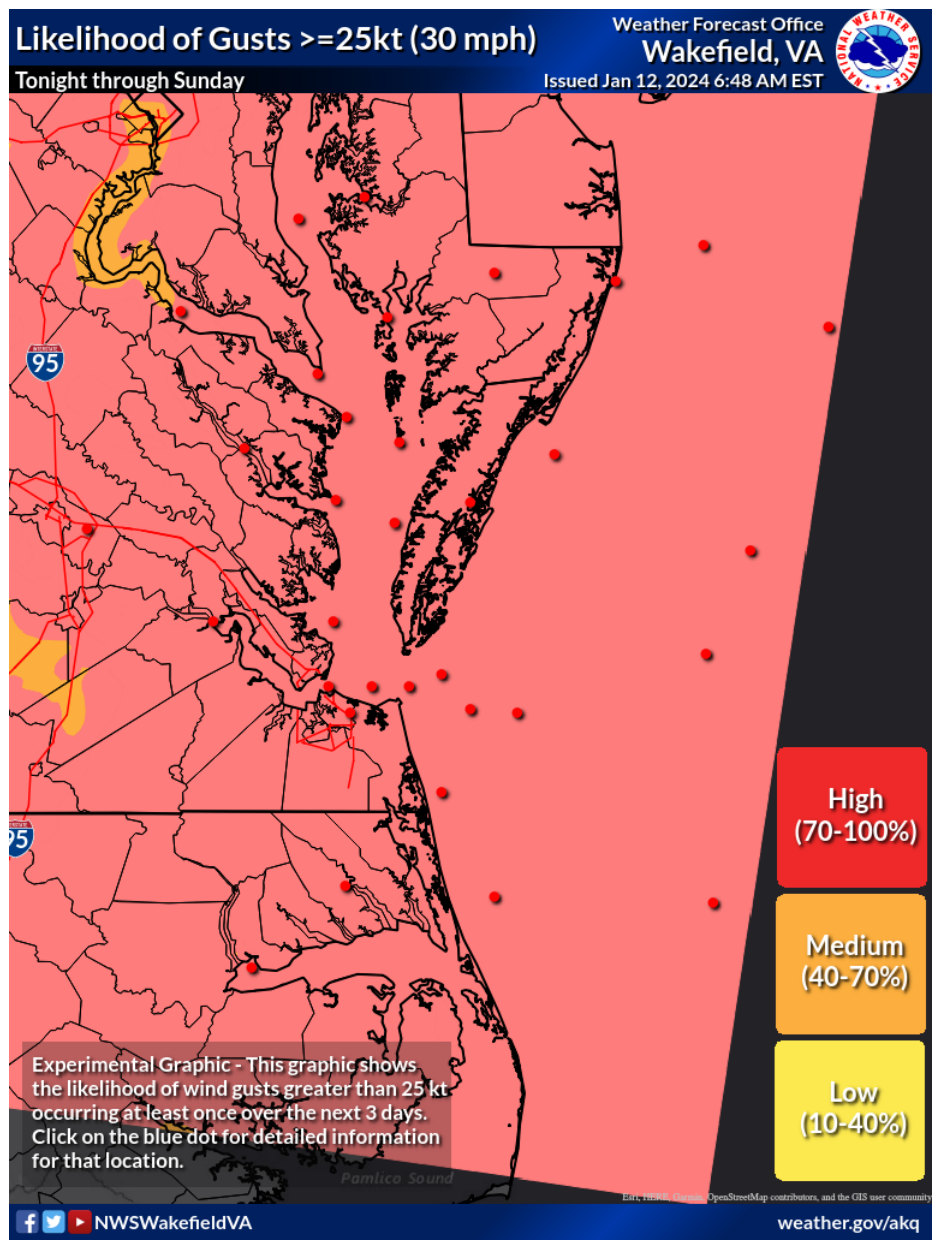
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National Weather Service  
Wakefield, VA



# Marine Wind Probabilities

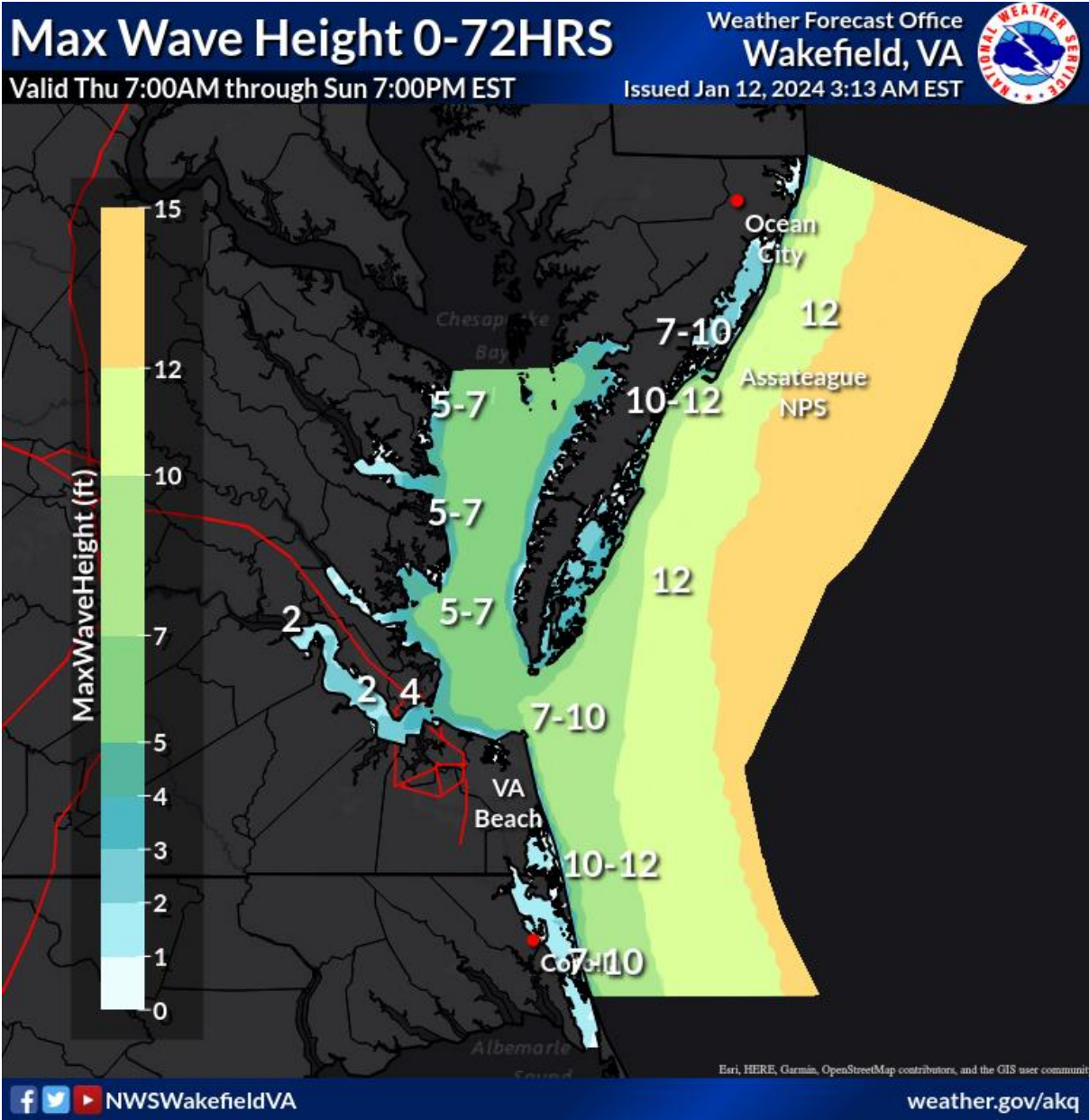
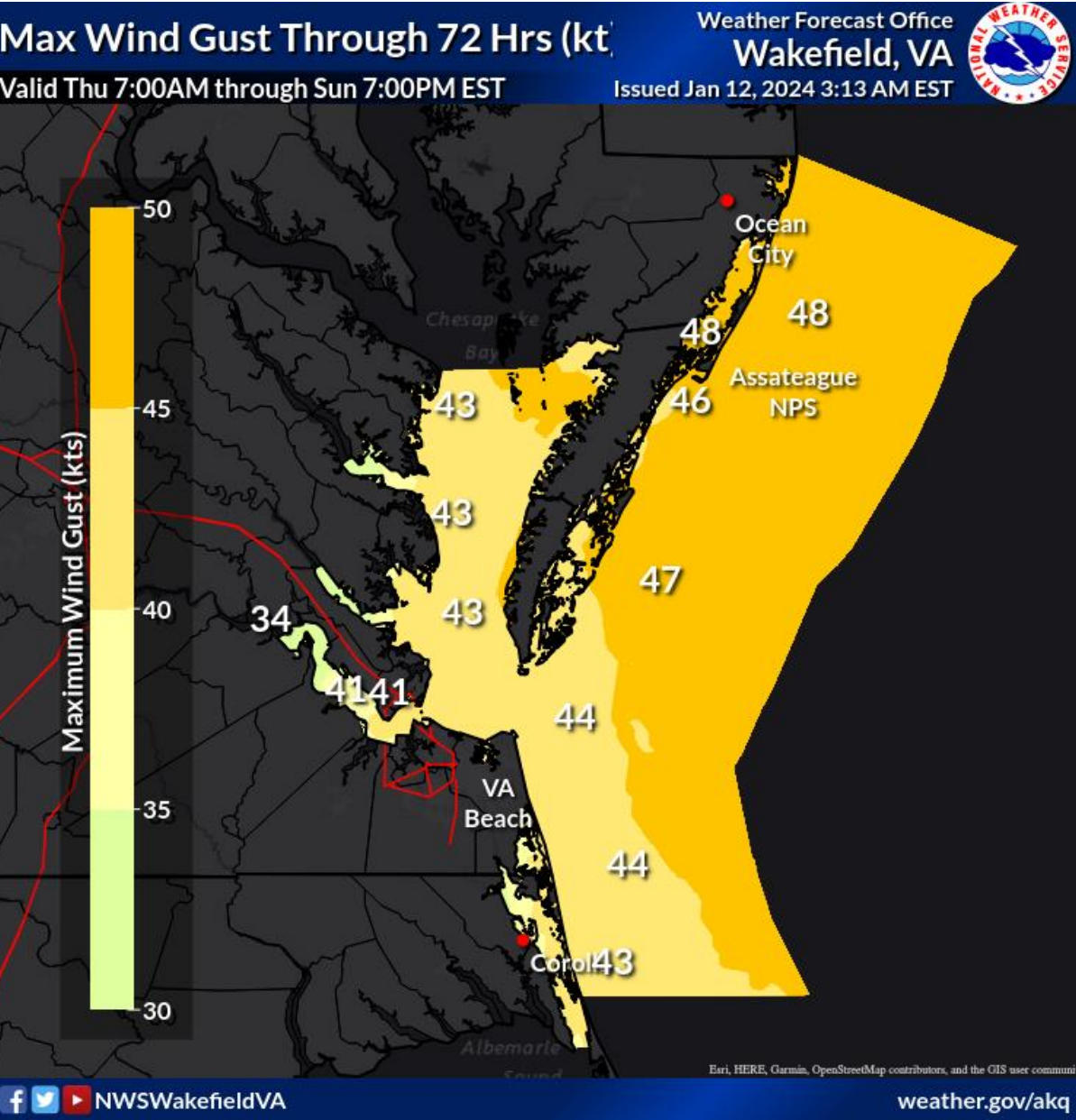
January 12, 2024  
10:00 AM





# Marine Threat Potential

January 12, 2024  
10:00 AM



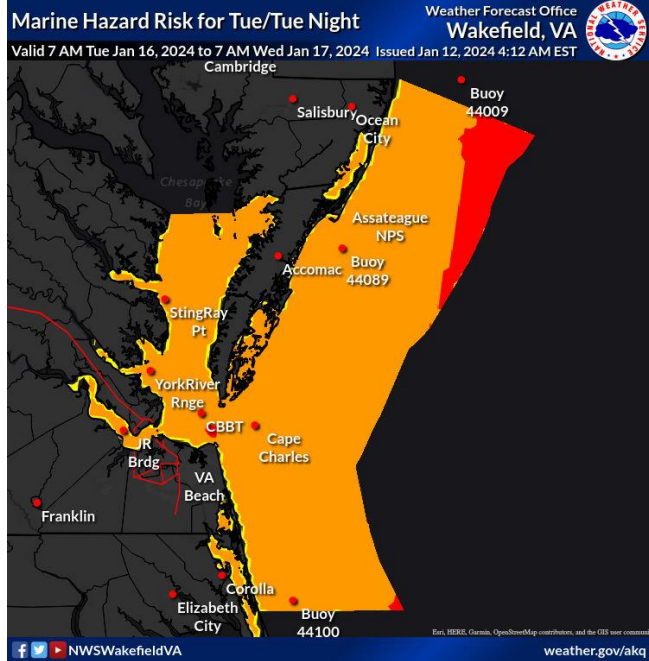
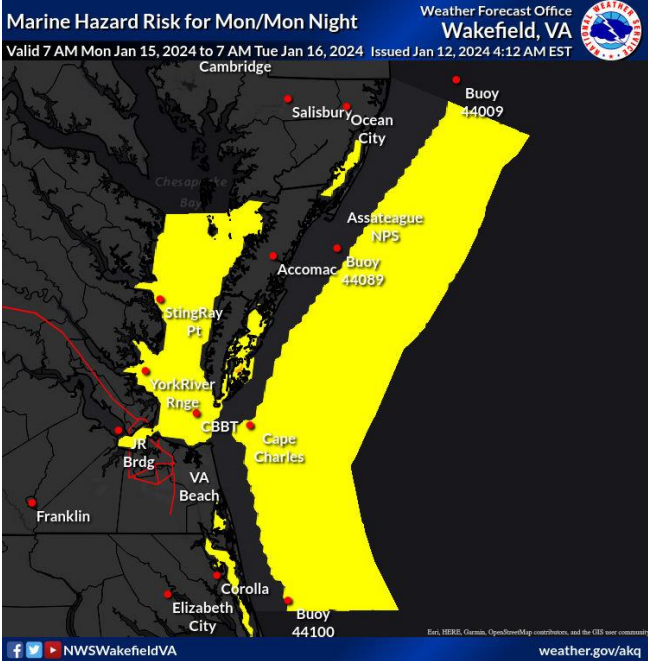
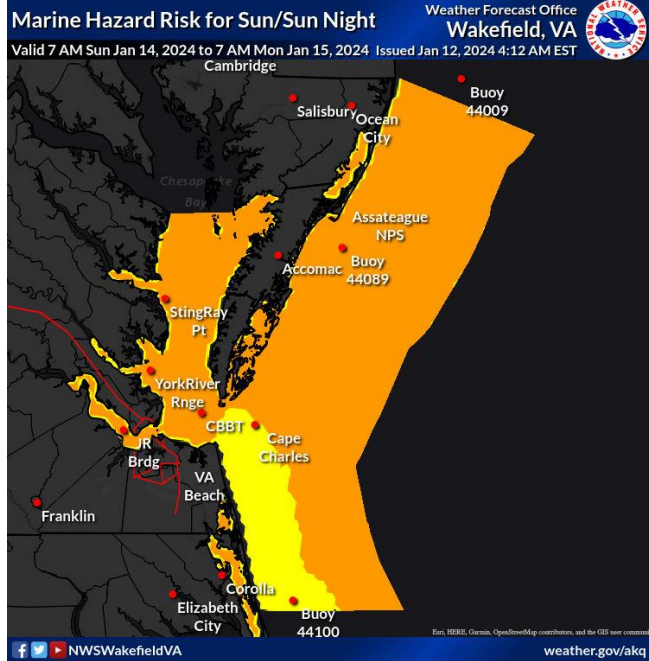
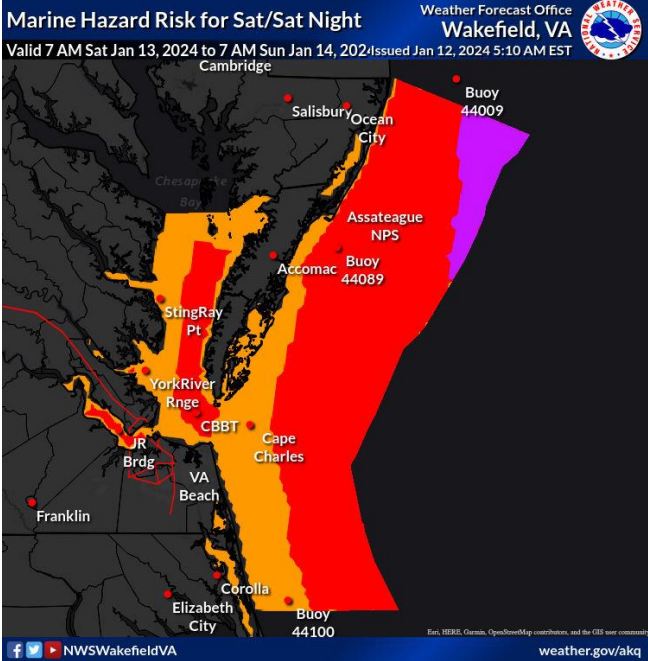
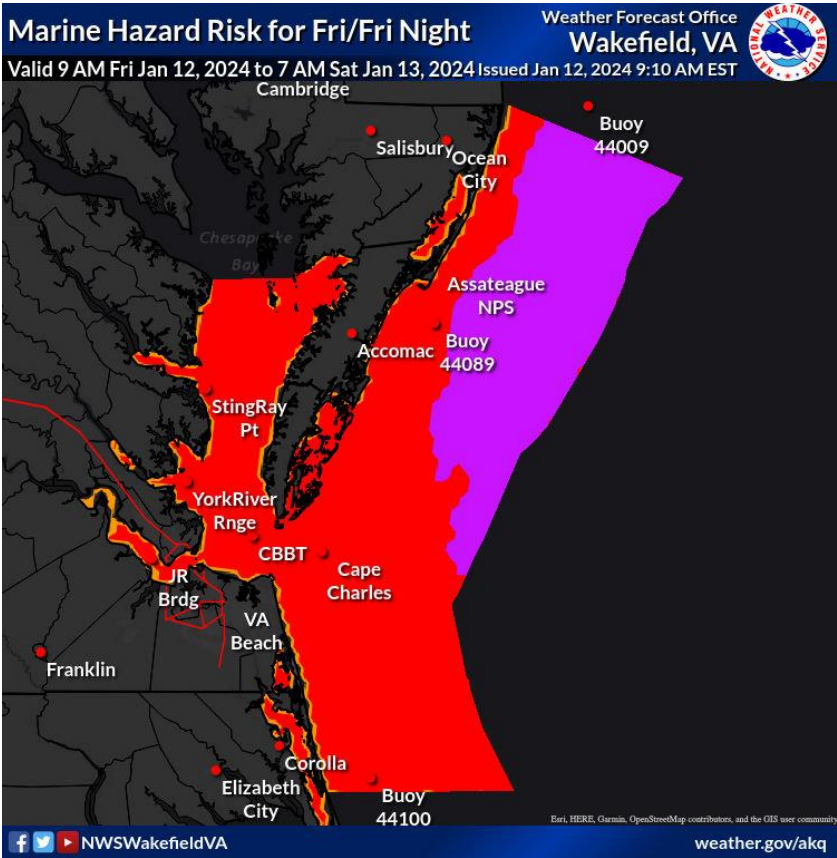
- Key Points:**
- Gale Warnings are in effect for all waters
  - Southeast to south winds increase to 25 to 30 knots with gusts of 40 to 45 knots this evening into tonight
  - Seas rapidly build to 7 to 12 feet (highest out 20 nm) and 5 to 7 feet in the Chesapeake Bay.

For Port specific forecast information visit: [https://www.weather.gov/akq/dss\\_port](https://www.weather.gov/akq/dss_port)



# Marine Threat Potential - Next 5 Days

January 12, 2024  
10:00 AM



Limited	Wind Gusts $\geq$ 20 knots (15 kt Bay & rivers) and/or Waves $\geq$ 4 feet (2 ft Bay & rivers).
Elevated	Wind Gusts $\geq$ 25 knots (20 kt Bay & rivers) and/or Waves $\geq$ 5 feet ( $\geq$ 4 ft Bay & rivers).
Significant	Wind Gusts $\geq$ 34 knots and/or Waves $\geq$ 8 feet ( $\geq$ 5 ft Bay & rivers).
Extreme	Wind Gusts $\geq$ 48 knots and/or Waves $\geq$ 12 feet ( $\geq$ 8 ft Bay & rivers).

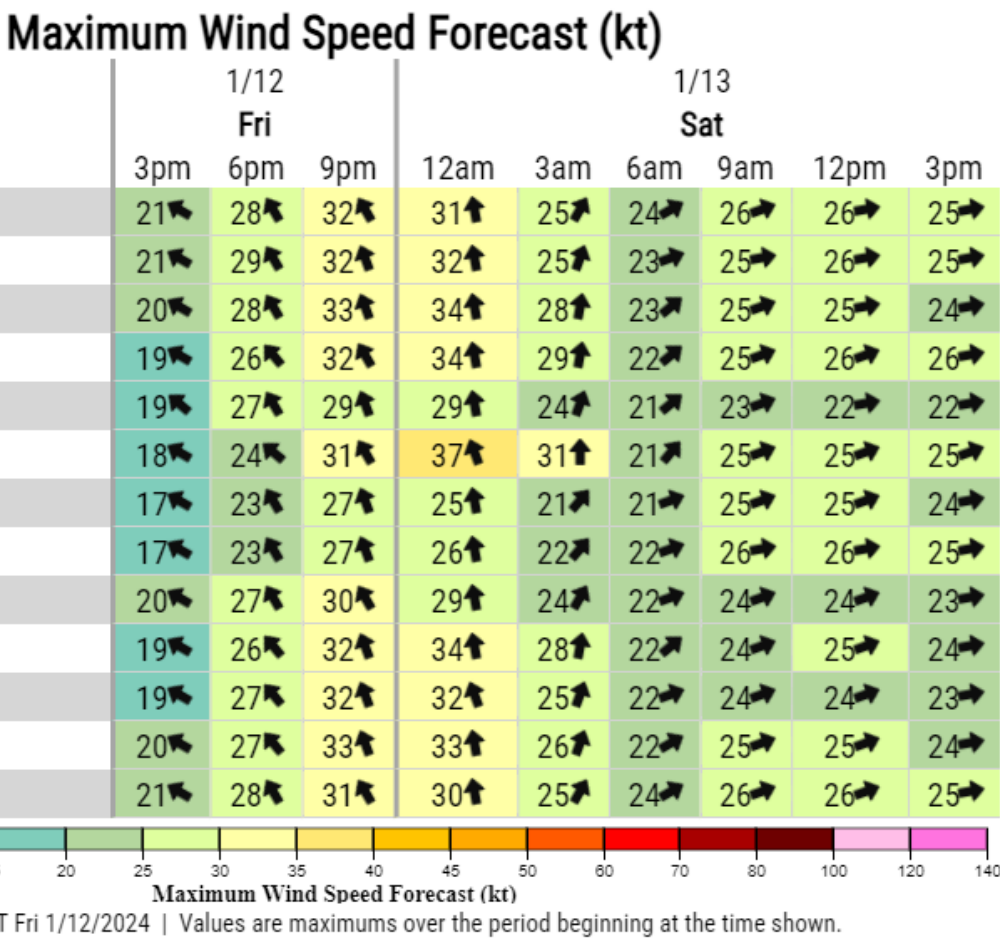




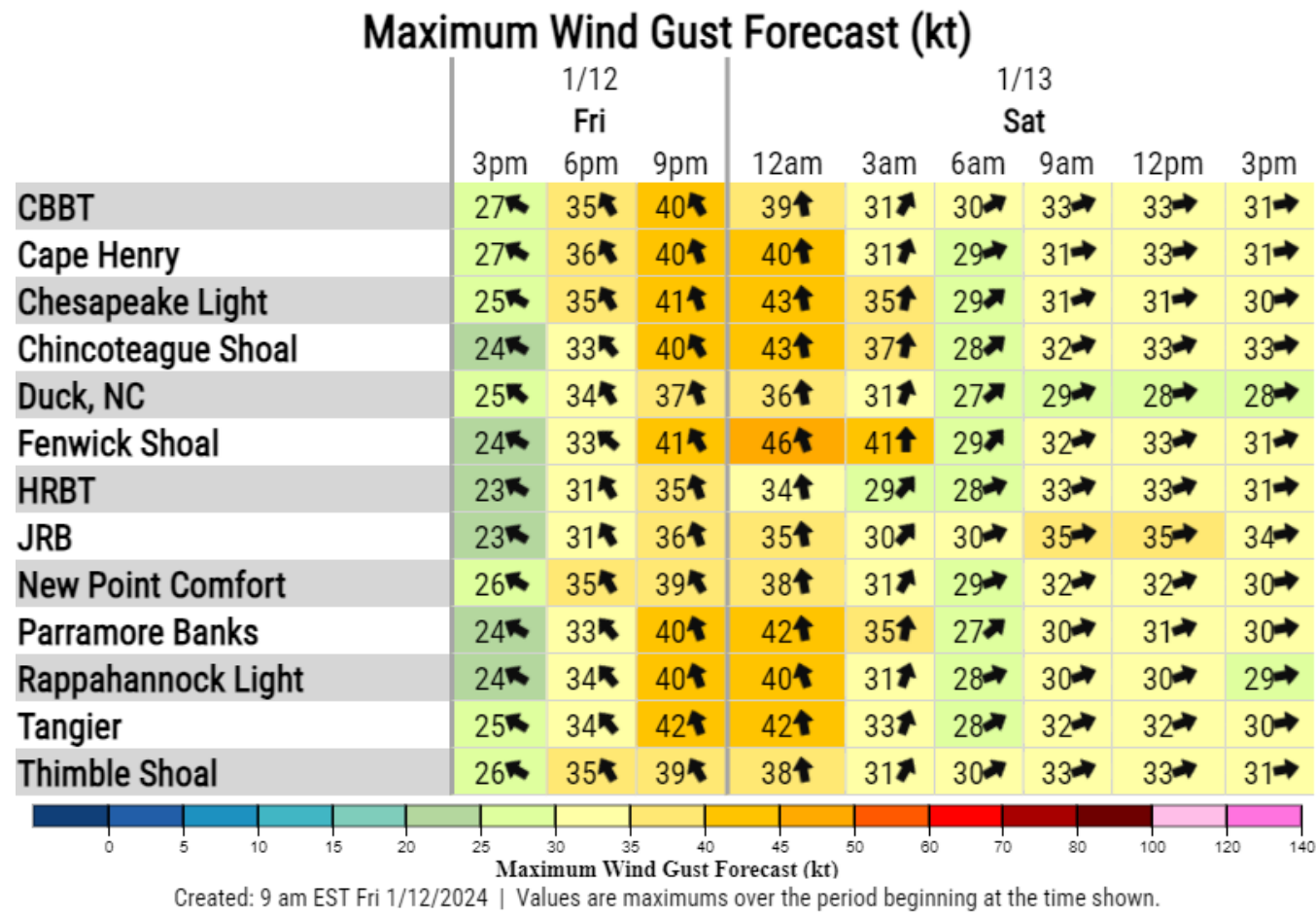
# Marine Wind Forecast Summary

January 12, 2024  
10:00 AM

## Sustained Wind



## Wind Gusts





# Summary of Greatest Impacts

January 12, 2024  
10:00 AM



**High Wind: Mainly along/near the coast**

None

Limited

Elevated

Significant

Extreme



**Severe Weather**

None

Limited

Elevated

Significant

Extreme



**Heavy Rain / Flooding**

None

Limited

Elevated

Significant

Extreme



**Coastal Flooding: Highest Bayside of MD Eastern Shore**

None

Limited

Elevated

Significant

Extreme



**Marine**

None

Limited

Elevated

Significant

Extreme





# Looking Ahead - Tuesday

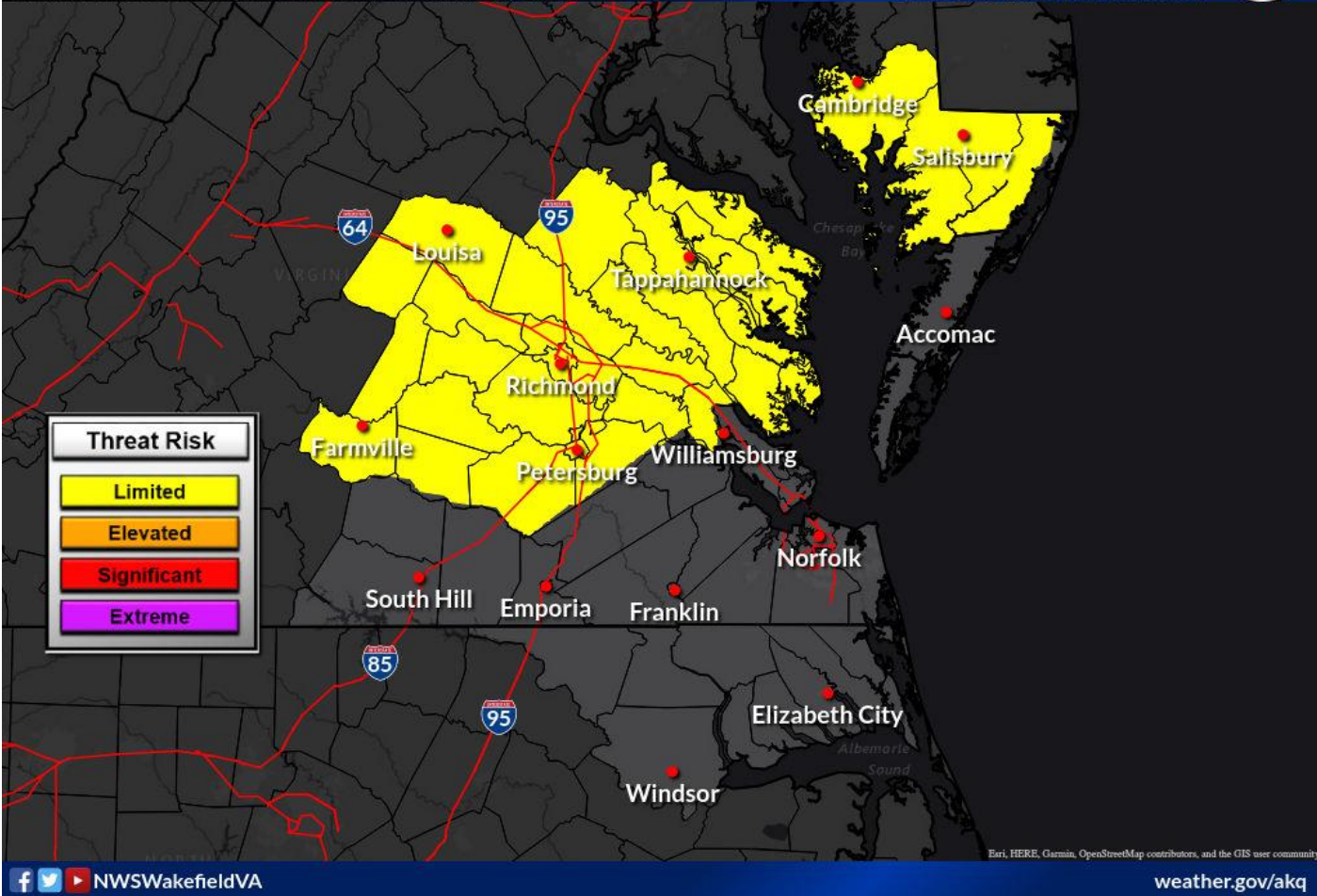
January 12, 2024  
10:00 AM

- A coastal storm is expected develop late Monday into Tuesday.
- Cold air will be in place across much of the region
- Medium confidence on some accumulating snow impacting portions of the middle Atlantic, but confidence is low on the placement.
- About 40% probability of 1" or greater of snow in the yellow area.

## Snow/Sleet Risk for Tue/Tue Night

Valid 7 AM Tue Jan 16, 2024 to 7 AM Wed Jan 17, 2024

Weather Forecast Office  
Wakefield, VA  
Issued Jan 12, 2024 5:09 AM EST



Limited	Light snow and/or sleet accumulation will result in locally hazardous travel conditions, especially on bridges, overpasses, and untreated or secondary roads.
Elevated	Considerable snow and/or sleet accumulation will cause significant travel disruptions.
Significant	Heavy snow and/or sleet accumulation will result in widespread travel disruptions.
Extreme	Extreme snow and/or sleet accumulation will result in widespread, prolonged travel disruptions.





# Key Messages

January 12, 2024  
10:00 AM

- A storm system brings another round of heavy rain, gusty winds, coastal flooding to the region this evening into tonight.
- There is a risk for severe thunderstorms late this evening into tonight across far southern and southeastern portions of the area. Damaging wind gusts and isolated tornadoes are the main threats with any stronger thunderstorms.
- An additional 0.50 to 0.75" of rain is possible with this system, with the highest amounts likely along and west of I-95. Instances of localized flooding cannot be ruled out, especially due to the already very saturated soils.
- Moderate (to locally major) coastal flooding is expected across the bayside of the Lower Maryland Eastern Shore. Nuisance to minor flooding is expected across the remainder of the northern Bay/tidal Potomac and along the northern shore of the Albemarle Sound in North Carolina.
- Looking ahead: Another storm system develops Monday night into Tuesday, bringing the potential for accumulating snow to portions of the forecast area.



# Contact and Next Briefing Information

January 12, 2024  
10:00 AM

For NWS Wakefield, Virginia



## Briefing Webpage

→ [NWS Wakefield Briefing](#)



## Next Briefing

→ As Needed

→ Email



## Disclaimer

→ Information contained in this briefing is time-sensitive

→ See [www.weather.gov/akq](http://www.weather.gov/akq) for the latest information



## Contact Information

### Web

→ [weather.gov/wakefield](http://weather.gov/wakefield)

### Phone

→ (757) 899-4200

### Email

→ [akq-report@noaa.gov](mailto:akq-report@noaa.gov)

### Facebook

→ [www.facebook.com/NWSWakefieldVA](http://www.facebook.com/NWSWakefieldVA)

### Twitter

→ [@NWSWakefieldVA](https://twitter.com/NWSWakefieldVA)

