



# Heavy Rain/Storm Briefing

January 9, 2024  
3:00 PM

Prepared by National Weather Service Wakefield, VA

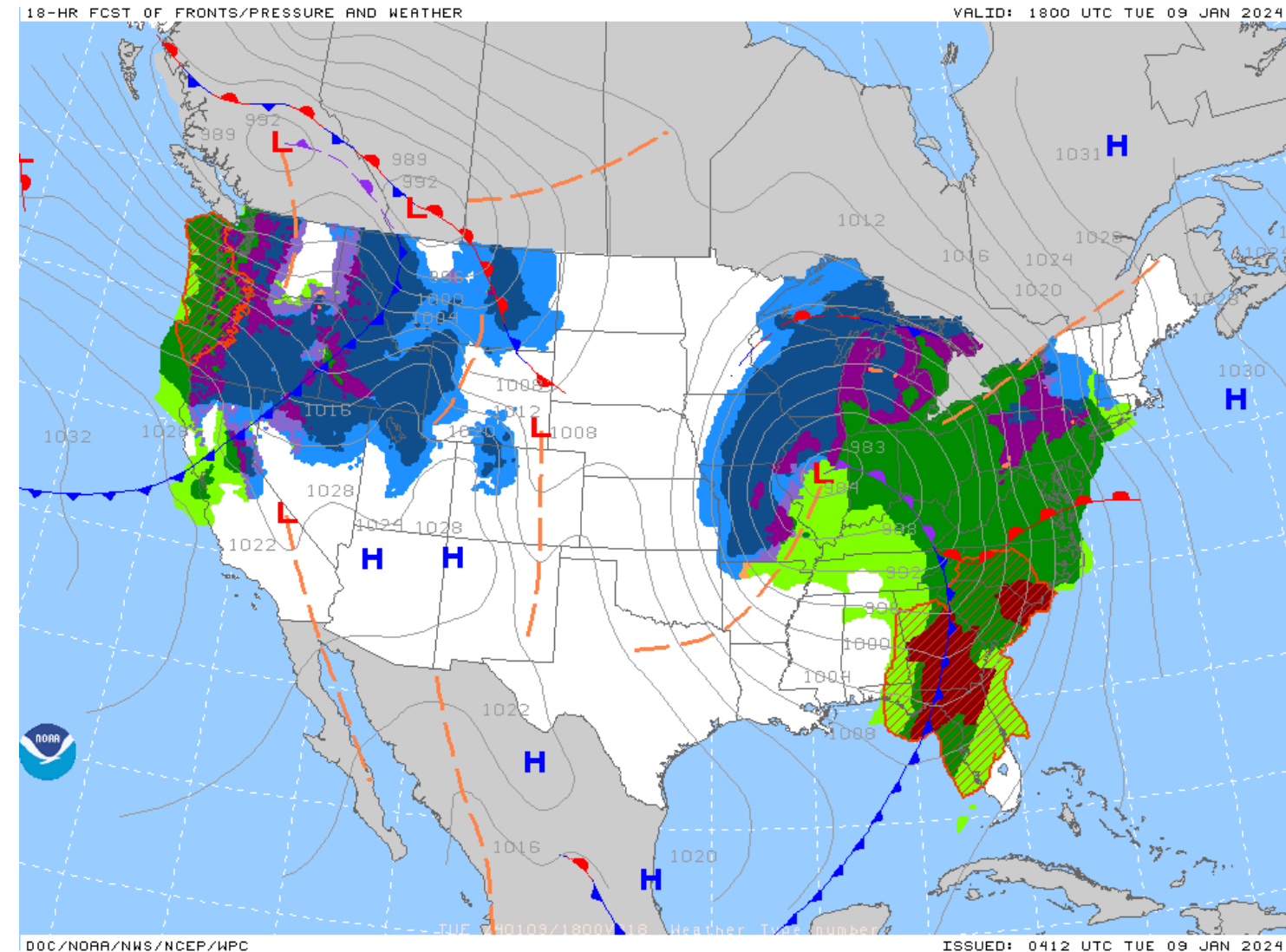
## Decision Support Briefing #4

→ As of 3:00 PM EST  
Tuesday, January 9, 2024

NEW

## Important Updates

- Storm Warnings remain in effect for the ocean, Chesapeake Bay, lower James River, and Currituck Sound. Gale Warnings in effect for the upper tidal rivers.
- Coastal Flood Warnings remain in effect for the bay-side of the MD Eastern Shore, the southern shore of the tidal Potomac, and for the northern shore and adjacent waterways of the Albemarle Sound
- High Wind Warnings are in effect for most of the Eastern Shore, the western shore of the Chesapeake Bay, and the coasts of Southeast VA and Northeast NC. Wind Advisories in effect elsewhere except far western counties.
- A Flood Watch is in effect for all local VA and MD counties



*Disclaimer: Information may become outdated after briefing time.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



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# Key Messages

January 9, 2024  
3:00 PM

- Strong low pressure and a cold front will track from the Appalachian Mountains this evening to off the Mid-Atlantic coast tonight.
- Moderate to heavy rain and strong winds will persist across the area this this evening and into tonight.
- Rain will persist this evening and exit the region late tonight. The heaviest rain will occur between 3 pm and midnight.
- Winds continue to increase late this afternoon peaking from 5 pm until midnight.
- There is a risk for strong to severe storms across northeast North Carolina and Southeast Virginia this evening. Strong, damaging wind gusts are the main threat, but there is also a potential for tornadoes.
- There will be the potential for localized power outages from wind and flooding from rainfall in addition to tidal flooding.



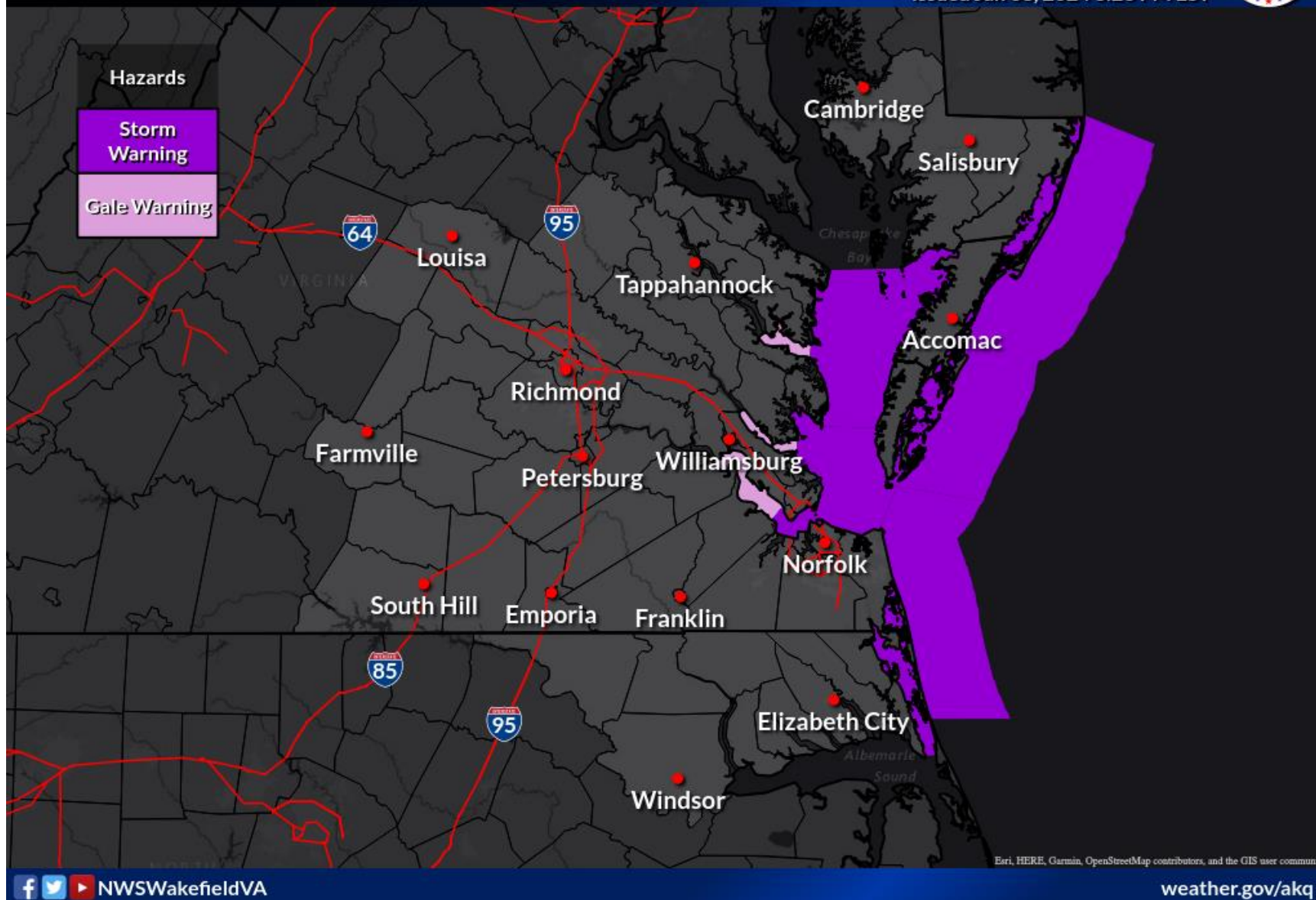


# Hazard Overview

January 9, 2024  
3:00 PM

## Marine Headlines

Weather Forecast Office  
Wakefield, VA  
Issued Jan 08, 2024 3:26 PM EST



- A Storm Warning is in effect for the Chesapeake Bay, Atlantic Ocean, Currituck Sound, and lower James River this morning into tonight
- A Gale Warning is in effect for the Rappahannock, York, and upper James River this afternoon into tonight
- Hazardous marine conditions will continue into Wednesday
- See [www.weather.gov/akq](http://www.weather.gov/akq) for the latest information



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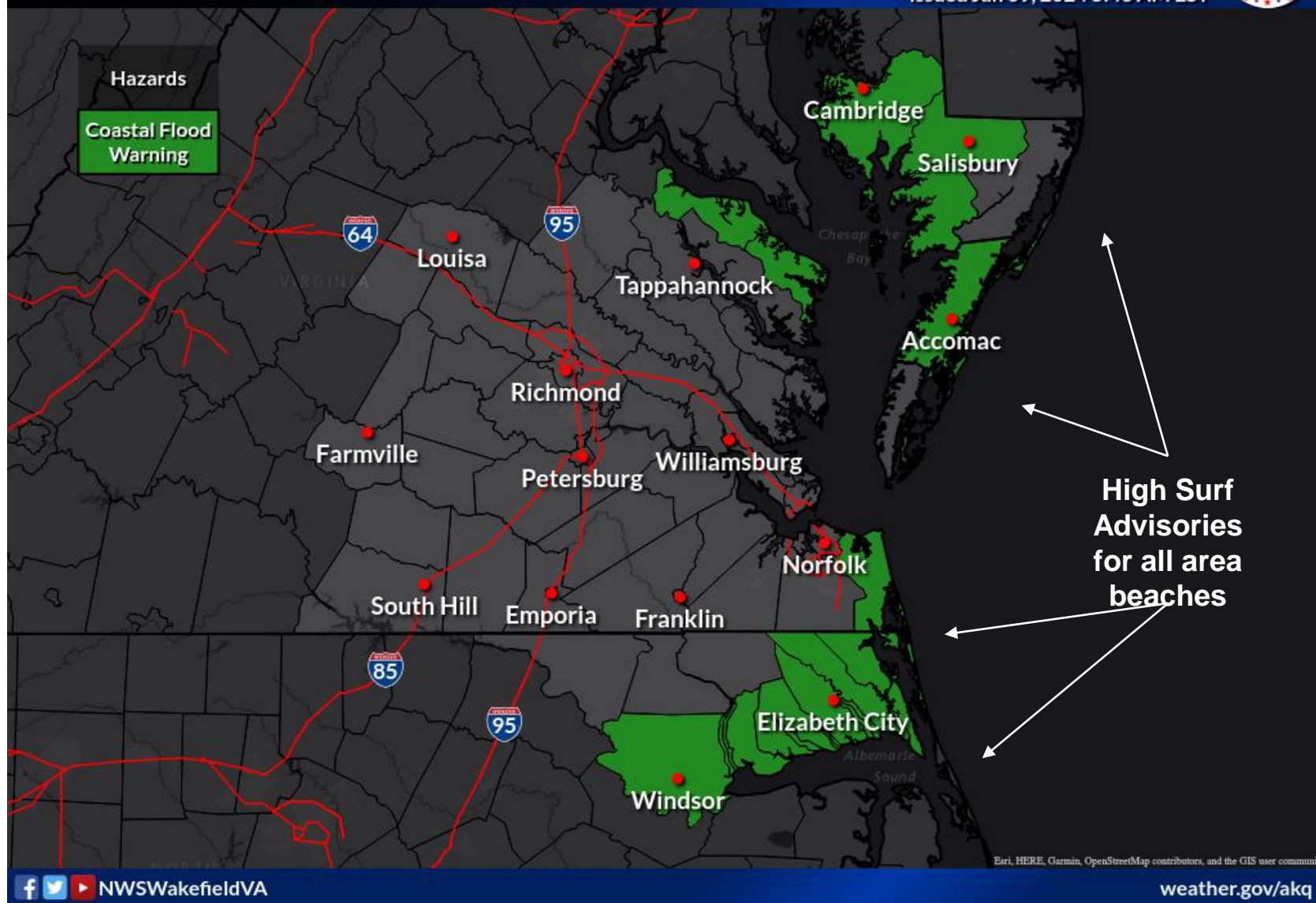
# Hazard Overview

January 9, 2024  
3:00 PM

## Coastal Flood Headlines

Weather Forecast Office  
Wakefield, VA

Issued Jan 09, 2024 5:46 AM EST



- Coastal Flood Warnings are in effect for the bay-side of the MD Eastern Shore, the southern shore of the tidal Potomac, and the northern shore of the Albemarle Sound and adjacent waterways
- High Surf Advisories are in effect for all area beaches
- Moderate to Major tidal flooding is possible tonight into Wednesday morning
- Large breaking waves will result in dangerous surf conditions and possible beach erosion
- See [www.weather.gov/akq](http://www.weather.gov/akq) for the latest information



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# Hazard Overview

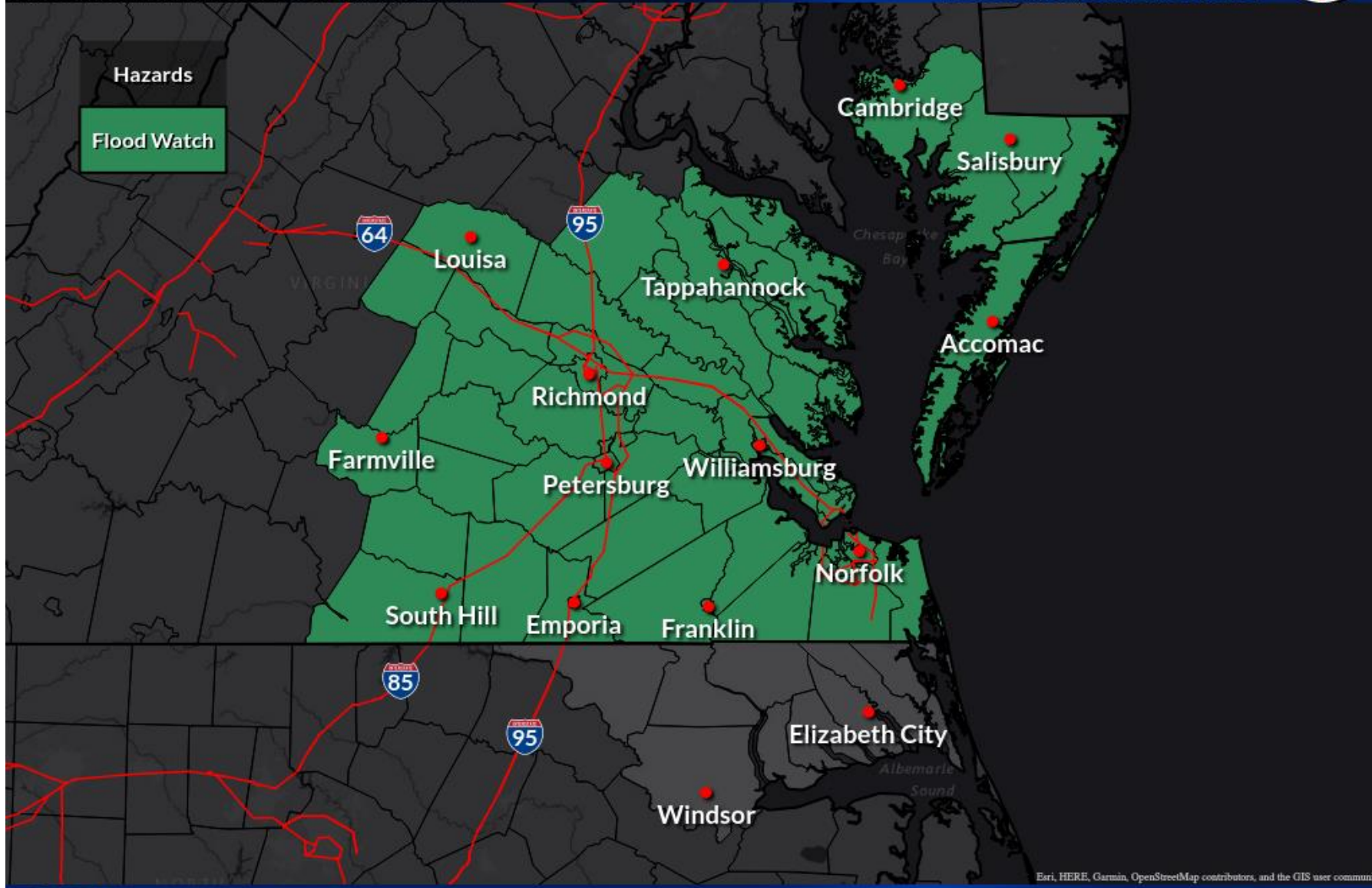
January 9, 2024  
3:00 PM

## Locally Heavy Rainfall Possible

Flood Watch in Effect for Much of the Area

Weather Forecast Office  
Wakefield, VA

Issued Jan 09, 2024 5:48 AM EST



f t NWSWakefieldVA

weather.gov/akq

- A Flood Watch is in effect this afternoon through early Wednesday morning for all local VA and MD counties
- Localized flash flooding is possible due to wet soil conditions. In addition, minor to moderate river flooding is likely
- See [www.weather.gov/akq](http://www.weather.gov/akq) for the latest information



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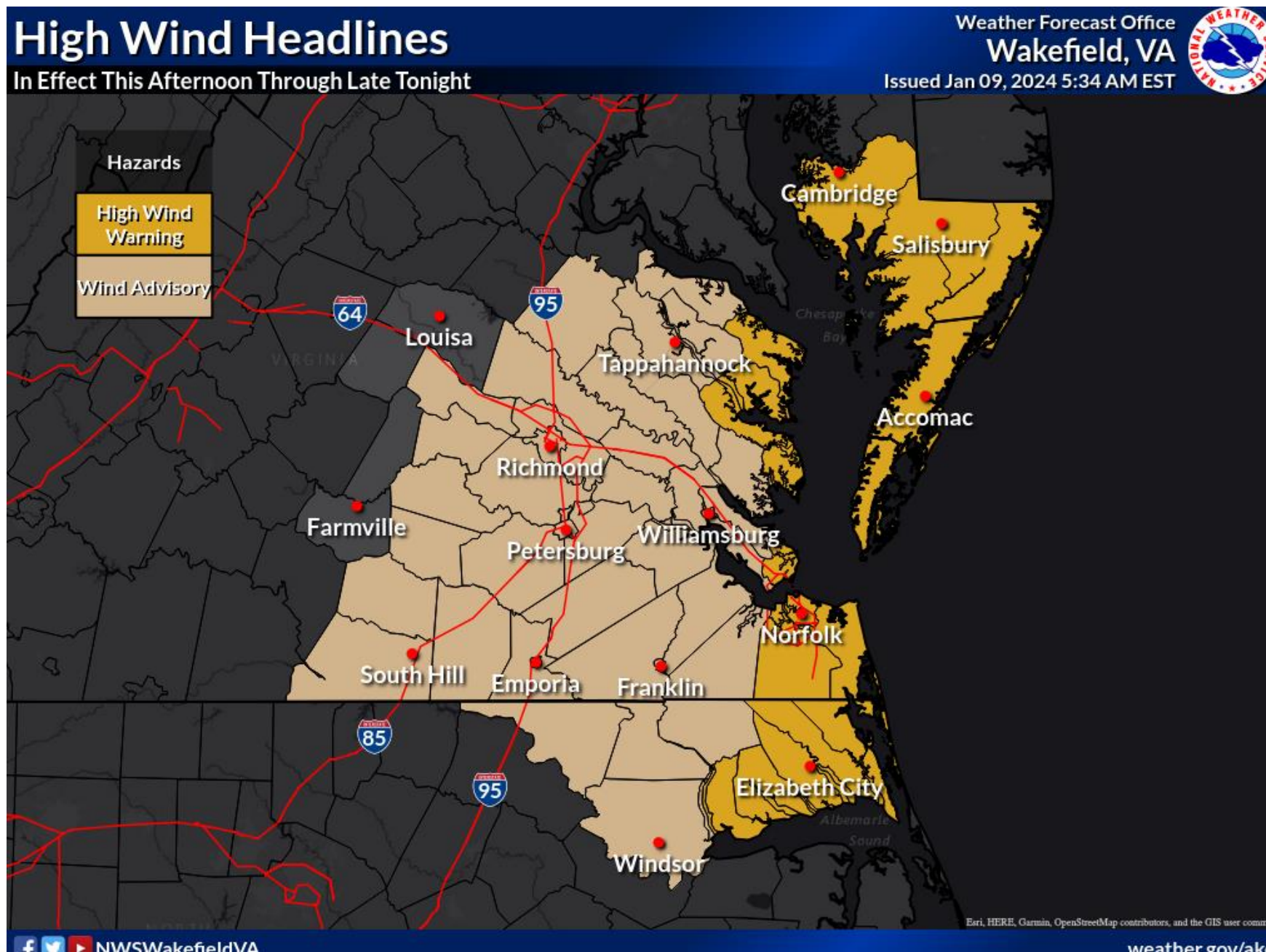
National Weather Service  
Wakefield, VA





# High Wind Headlines

January 9, 2024  
3:00 PM



- High Wind Warnings are in effect for locations near the Chesapeake Bay, Atlantic Ocean, and Albemarle Sound this afternoon into tonight
- Wind Advisories are in effect for inland counties to just west of the I-95/I-85 corridor.
- See [www.weather.gov/akq](http://www.weather.gov/akq) for the latest information

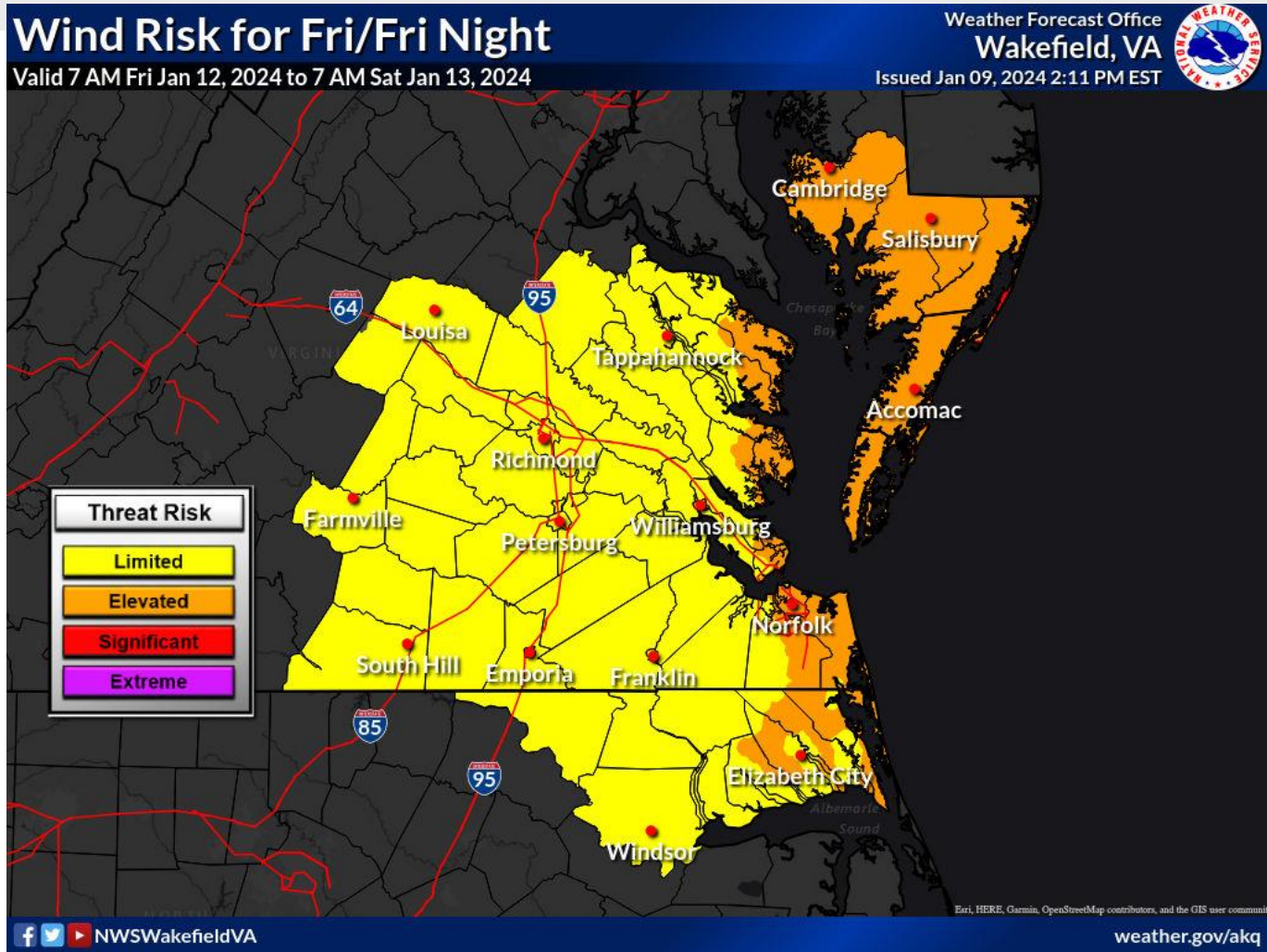
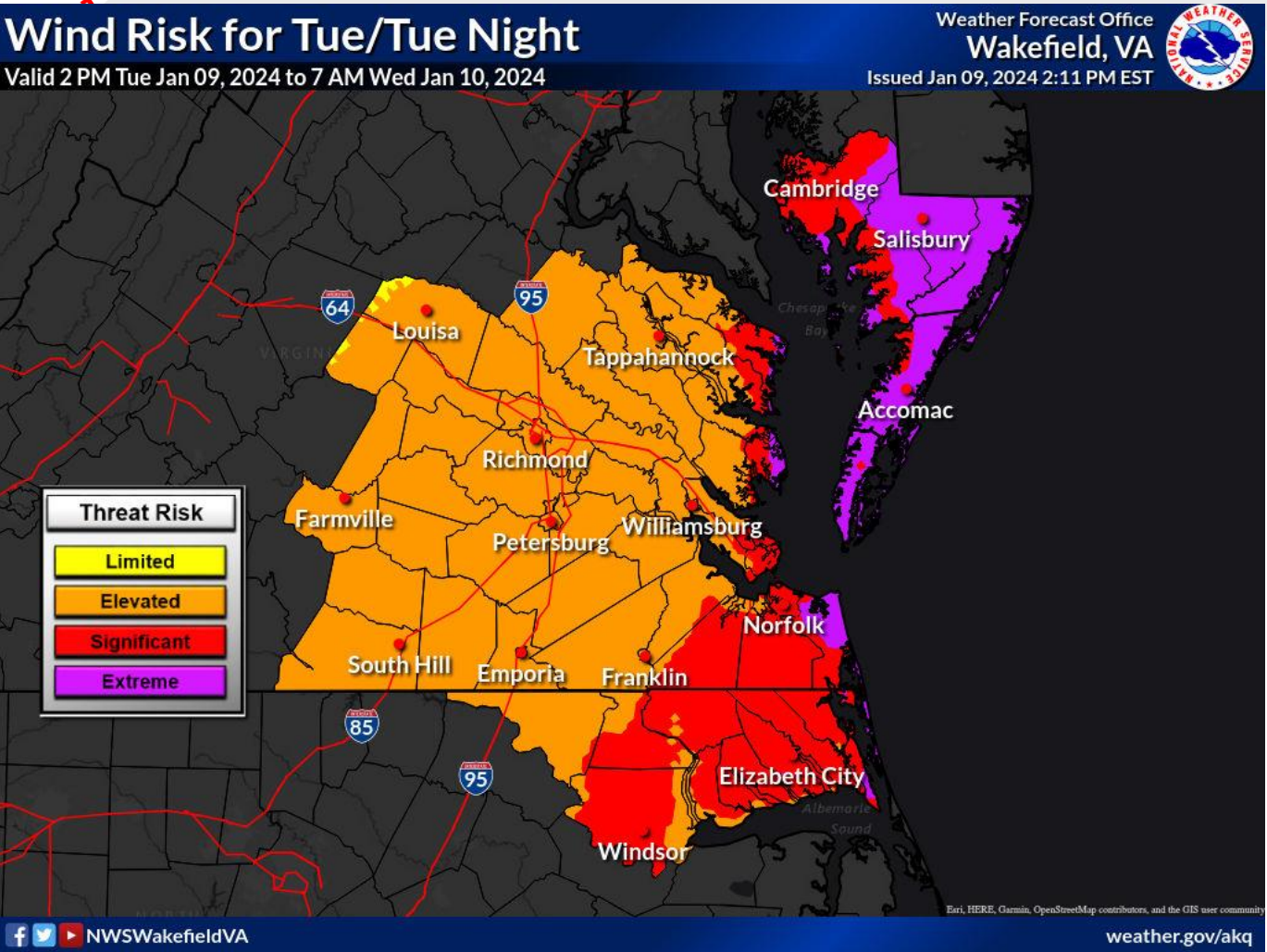






# High Wind This Evening & Fri Night

January 9, 2024  
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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 Forecst

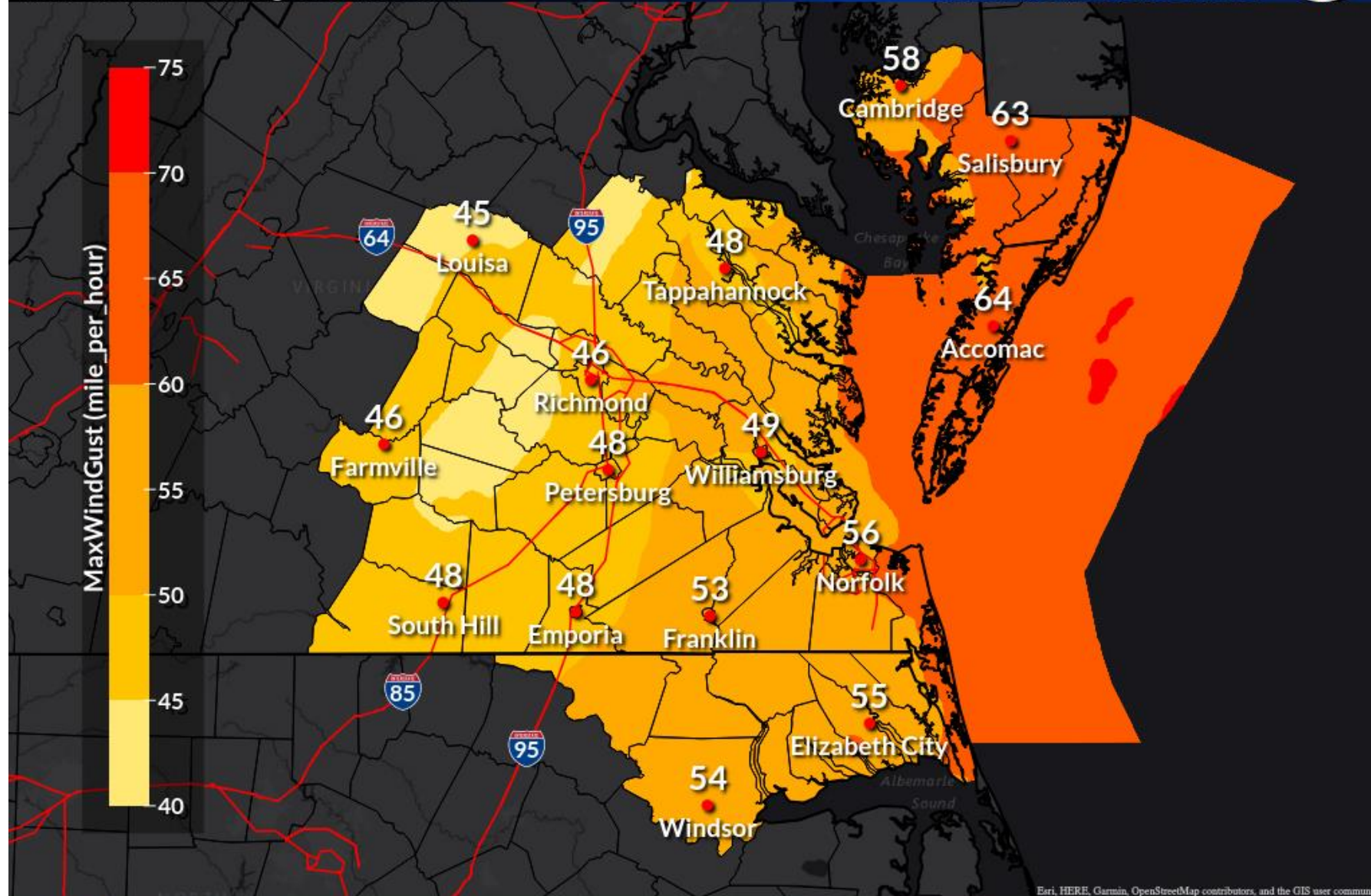
January 9, 2024  
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## Max Wind Gust Through 72 Hrs

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

Weather Forecast Office  
Wakefield, VA

Issued Jan 09, 2024 12:30 PM EST



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- A strong southeast, then south, wind is expected this afternoon into tonight
- The wind will be highest from the I-95 corridor to the coast, and strongest (potentially damaging) near the coast
- Localized higher wind gusts are possible due to isolated thunderstorms across southeast VA and northeast NC



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# Regional Winds Forecast Summary

January 9, 2024  
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## Maximum Wind Gust Forecast

	1/9 Tue				1/10 Wed				1/11 Thu				1/12 Fri				1/13 Sat				1/14 Sun			
	6am	12pm	6pm		12am	6am	12pm	6pm	12am	6am	12pm	6pm	12am	6am	12pm	6pm	12am	6am	12pm	6pm	12am	6am	12pm	6pm
Accomac	29↘	52↘	60↑		44↑	43→	41→	24→	16→	15→	17→	15→	9→	15↘	25↘	44↘	51↑	41↑	44→	40→	37→	29→	25→	18→
Ahoski	25↘	46↑	51↑		31↑	36→	36→	15→	7→	10→	13→	10→	6→	12↘	22↘	32↑	35↑	35→	38→	35→	24→	21→	22→	13→
Cambridge	26↘	47↘	54↑		37↑	38→	38→	22→	13→	14→	16→	15→	9→	13↘	21↘	39↘	47↑	38→	40→	38→	32→	25→	25→	18→
Corolla	33↘	54↘	60↑		41↑	45→	40→	25→	20→	17→	17→	13→	12↘	16↘	26↘	40↑	45↑	38→	39→	38→	33→	29→	24→	20→
Elizabeth City	29↘	49↑	55↑		37↑	40→	38→	18→	10→	14→	16→	13→	7→	15↘	25↘	37↑	40↑	38→	40→	37→	28→	24→	24→	15→
Emporia	22↘	44↘	45↑		29↑	36→	33→	15→	6→	10→	12→	9→	6→	12↘	21↘	31↑	35↑	33→	37→	35→	24→	21→	23→	12→
Farmville	22↘	43↑	39↑		24↑	35→	33→	16→	7→	12→	15→	13→	7→	10↘	18↘	28↑	31↑	33→	37→	35→	25→	22→	23→	14→
Louisa	21↘	41↘	38↘		23↑	35→	36→	17→	9→	13→	15→	15→	7→	9↘	16↘	29↑	33↑	32→	38→	35→	24→	21→	23→	13→
Norfolk / Portsmouth	28↘	49↑	53↑		38↑	39→	38→	21→	13→	14→	16→	14→	7→	16↘	25↘	38↑	41↑	38→	39→	37→	29→	25→	25→	17→
Ocean City	31↘	48↘	61↑		47↑	40→	39→	24→	18→	16→	18→	16→	12→	14↘	23↘	41↑	48↑	41↑	41→	38→	36→	28→	25→	20→
Richmond	24↘	43↘	43↑		29↑	37→	38→	18→	9→	13→	15→	13→	7→	12↘	20↘	32↑	37↑	35→	38→	36→	24→	22→	24→	15→
Salisbury	25↘	48↘	59↑		44↑	41→	41→	23→	12→	14→	16→	16→	9→	14↘	22↘	40↘	48↑	39→	45→	38→	33→	26→	26→	18→
South Hill	24↘	45↑	44↑		29↑	35→	33→	15→	7→	10→	13→	10→	5→	12↘	21↘	31↑	35↑	33→	38→	35→	24→	22→	23→	13→
Tappahannock	24↘	41↘	44↘		28↑	33→	35→	17→	9→	12→	14→	13→	6→	12↘	20↘	31↑	37↑	31↑	35→	32→	23→	21→	22→	15→
Virginia Beach	32↘	54↑	59↑		39↑	41→	39→	23→	16→	15→	16→	13→	8→	16↘	26↘	41↑	45↑	37→	38→	37→	31→	25→	24→	18→
Williamsburg	23↘	44↑	47↑		31↑	37→	37→	17→	9→	13→	16→	13→	6→	13↘	21↘	33↑	38↑	35→	38→	36→	26→	22→	22→	13→

\*Table values in mph

\*\*Created: 2 pm EST Tue 1/9/2024

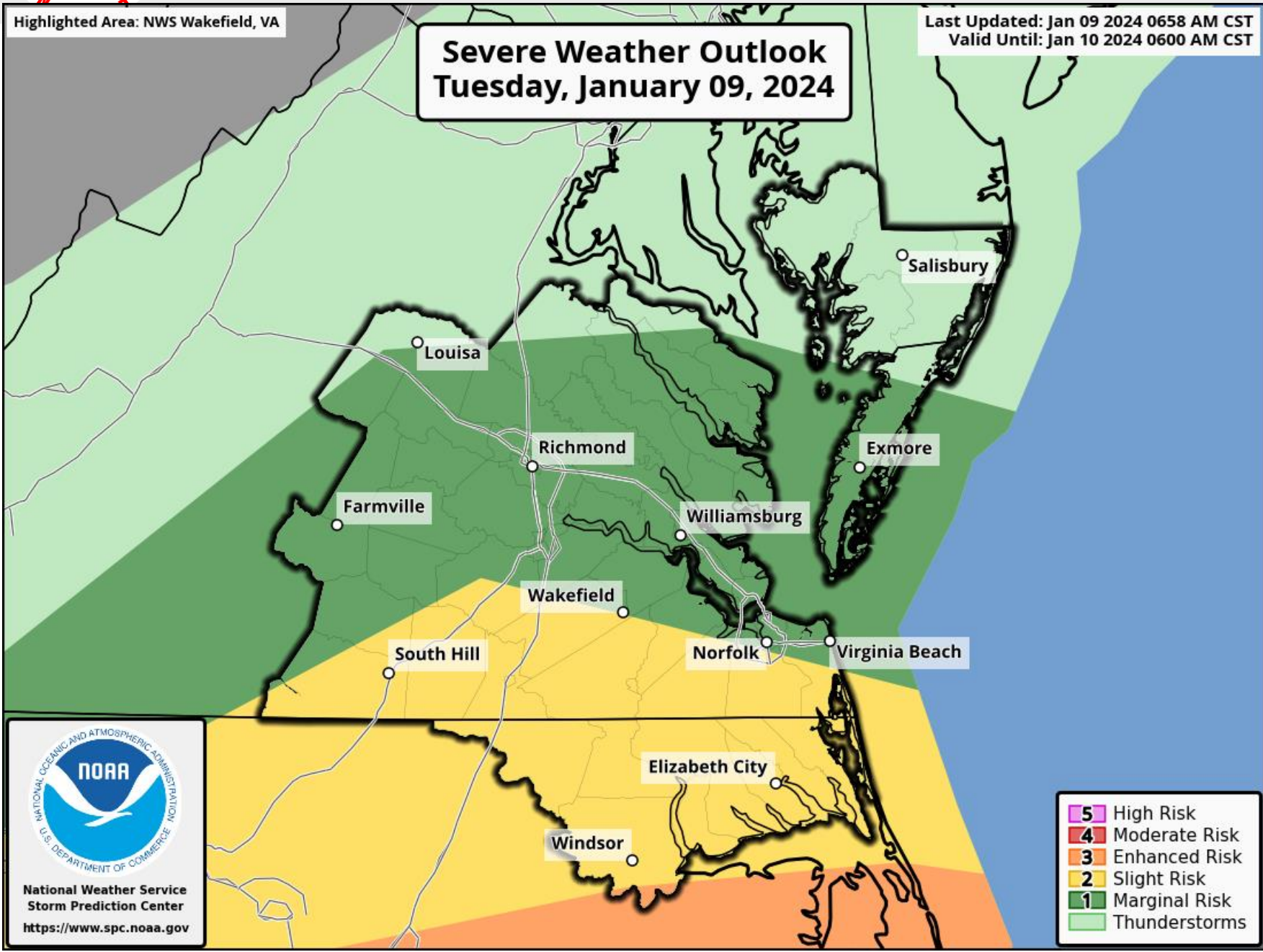
\*\*\*Values are maximums over the period beginning at the time shown.





# Severe Weather Outlook

January 9, 2024  
3:00 PM



- **Timing:** This evening into the early overnight hours
- **Potential Impacts:** Damaging wind gusts and a few brief tornadoes
- **Locations:** Southeast VA and Northeast NC
- **Storm Coverage:** Storms will form into a line with localized impacts within the the line

<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

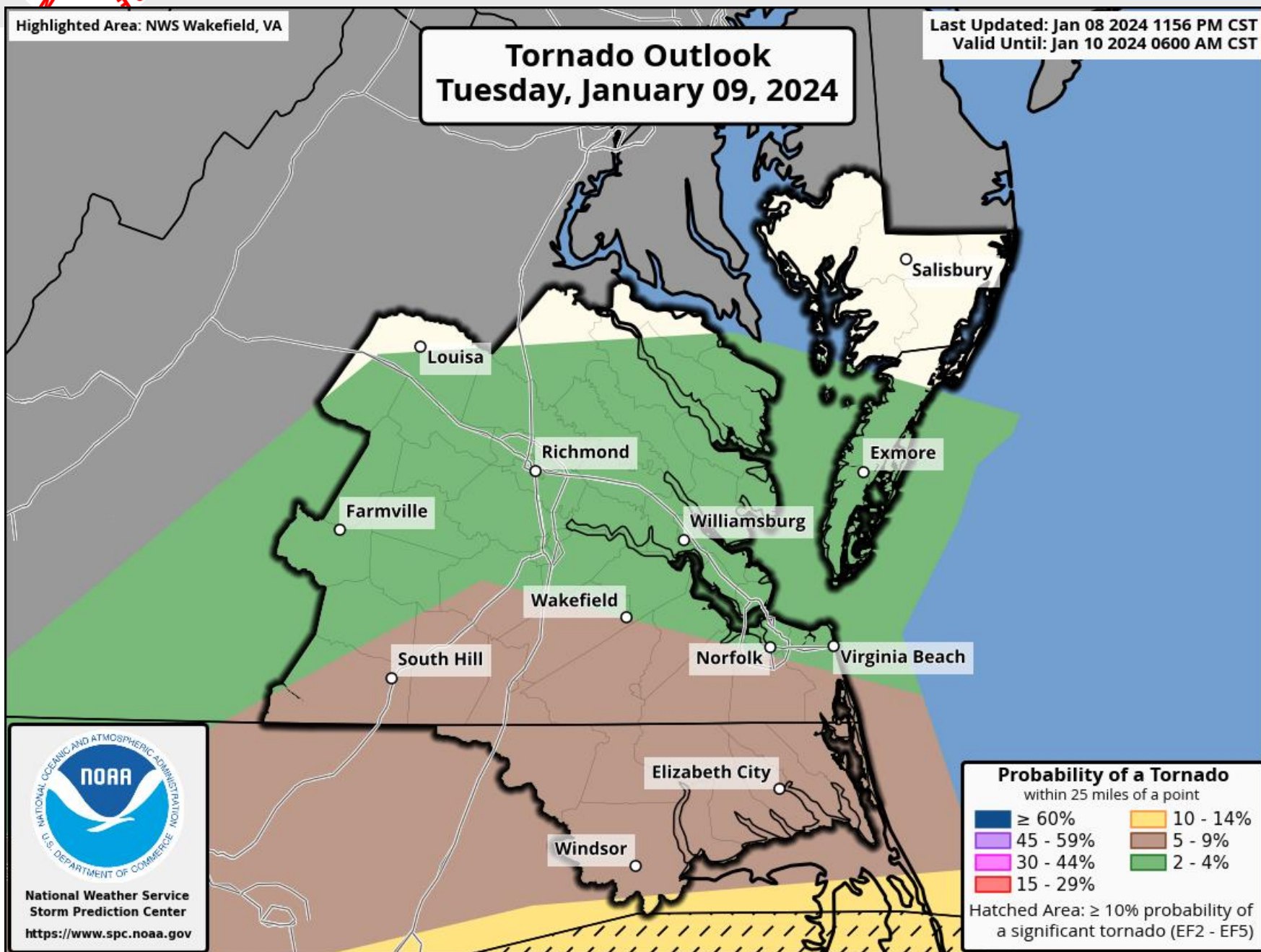






# Tornado Threat

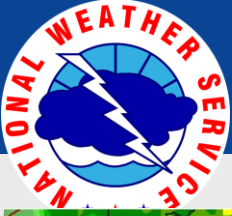
January 9, 2024  
3:00 PM



- **Timing:** This evening into the early overnight hours
- **Potential Impacts:** A few brief tornadoes are possible
- **Locations:** Southeast VA and Northeast NC (a potential for significant tornadoes is near the local area, immediately south of the Albemarle Sound)
- **Storm Coverage:** Storms will form into a line with localized impacts within the the line

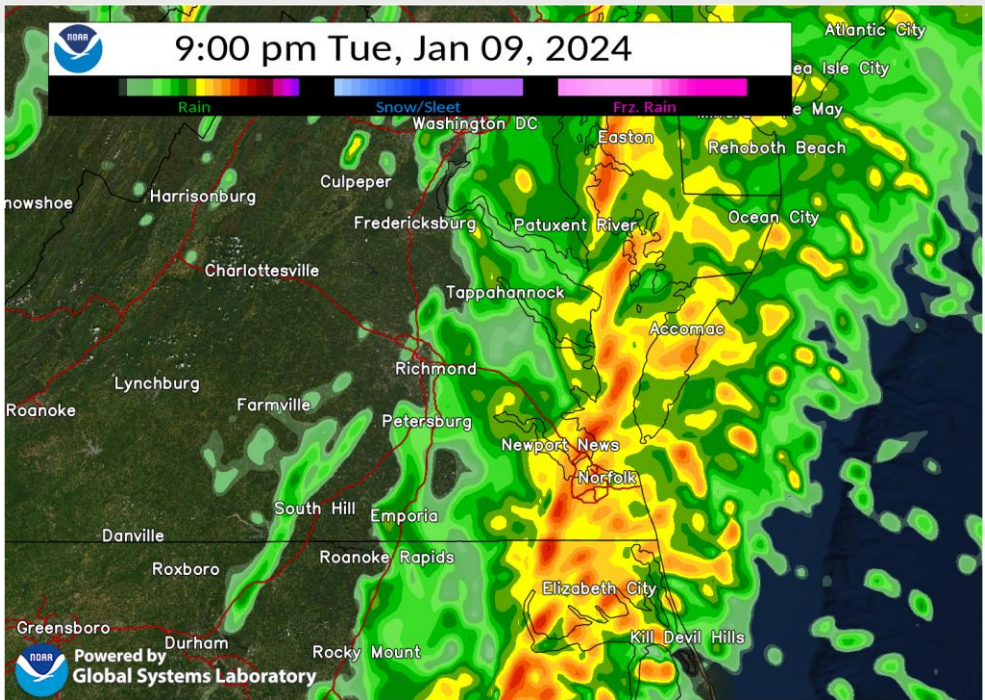
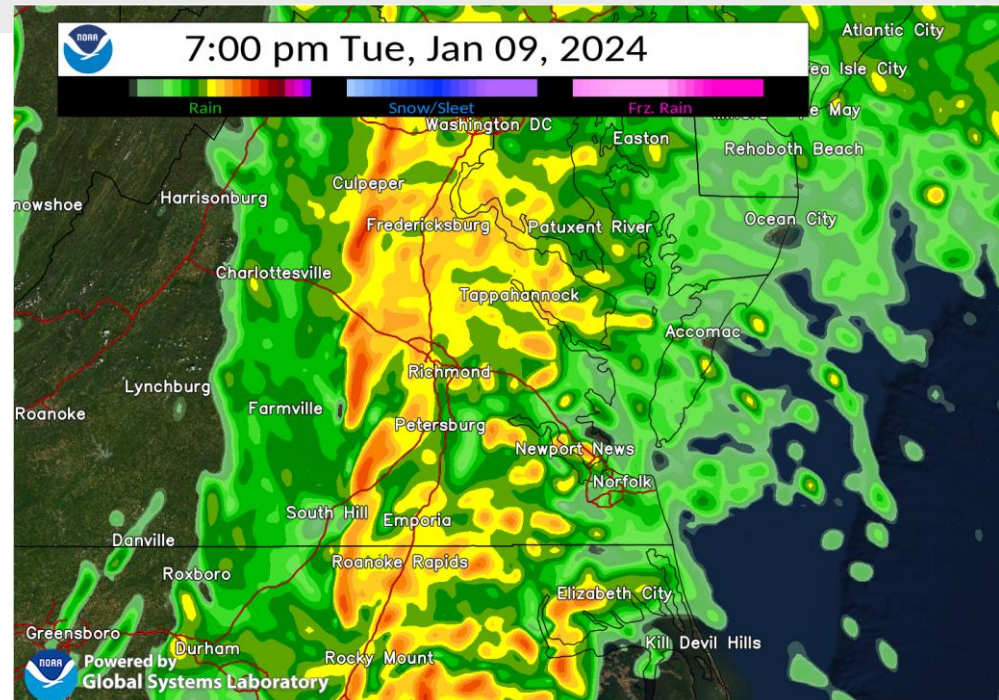
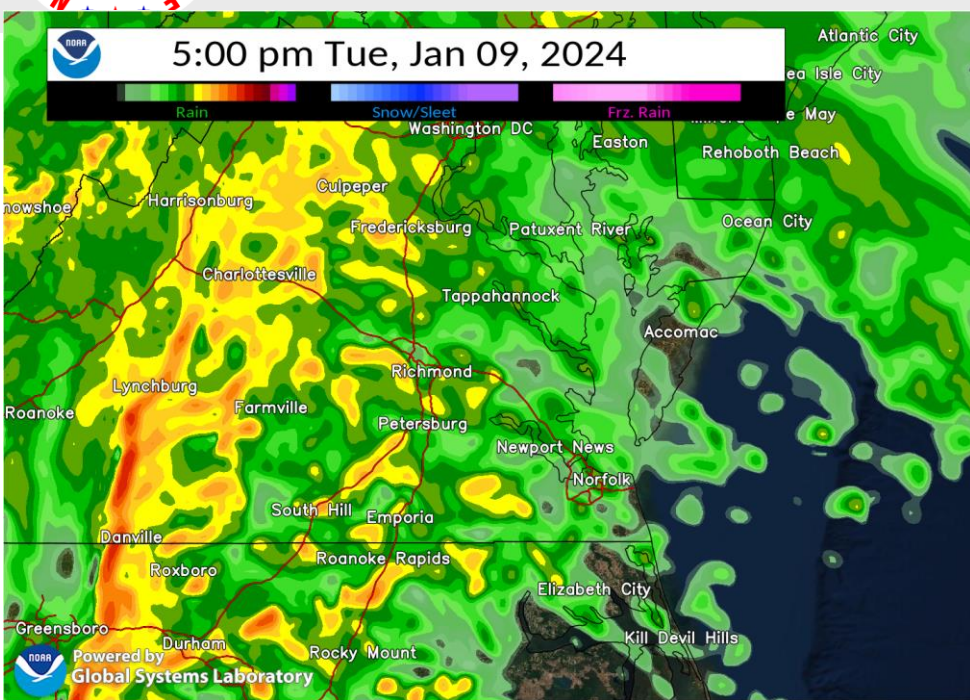




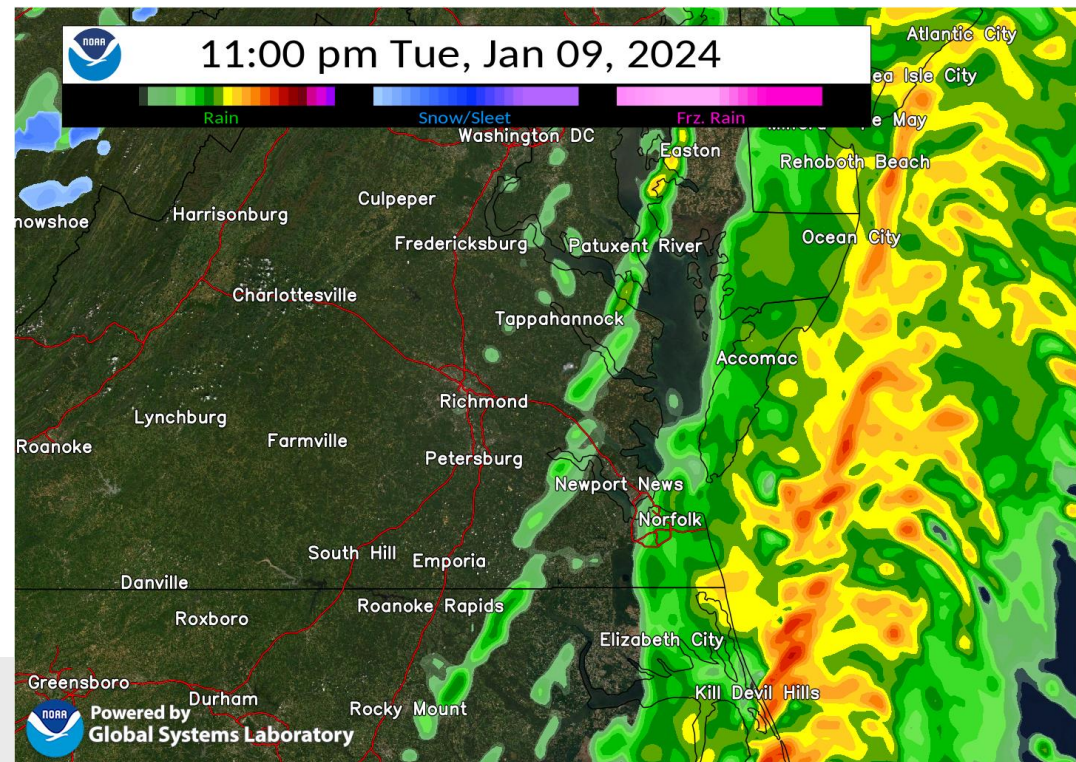


# Timing Of Heavy Rain / Storms

January 9, 2024  
3:00 PM



Model simulated reflectivity of what the radar may look like from 5 pm through 11 pm this evening.







# Total Expected Rainfall Forecast

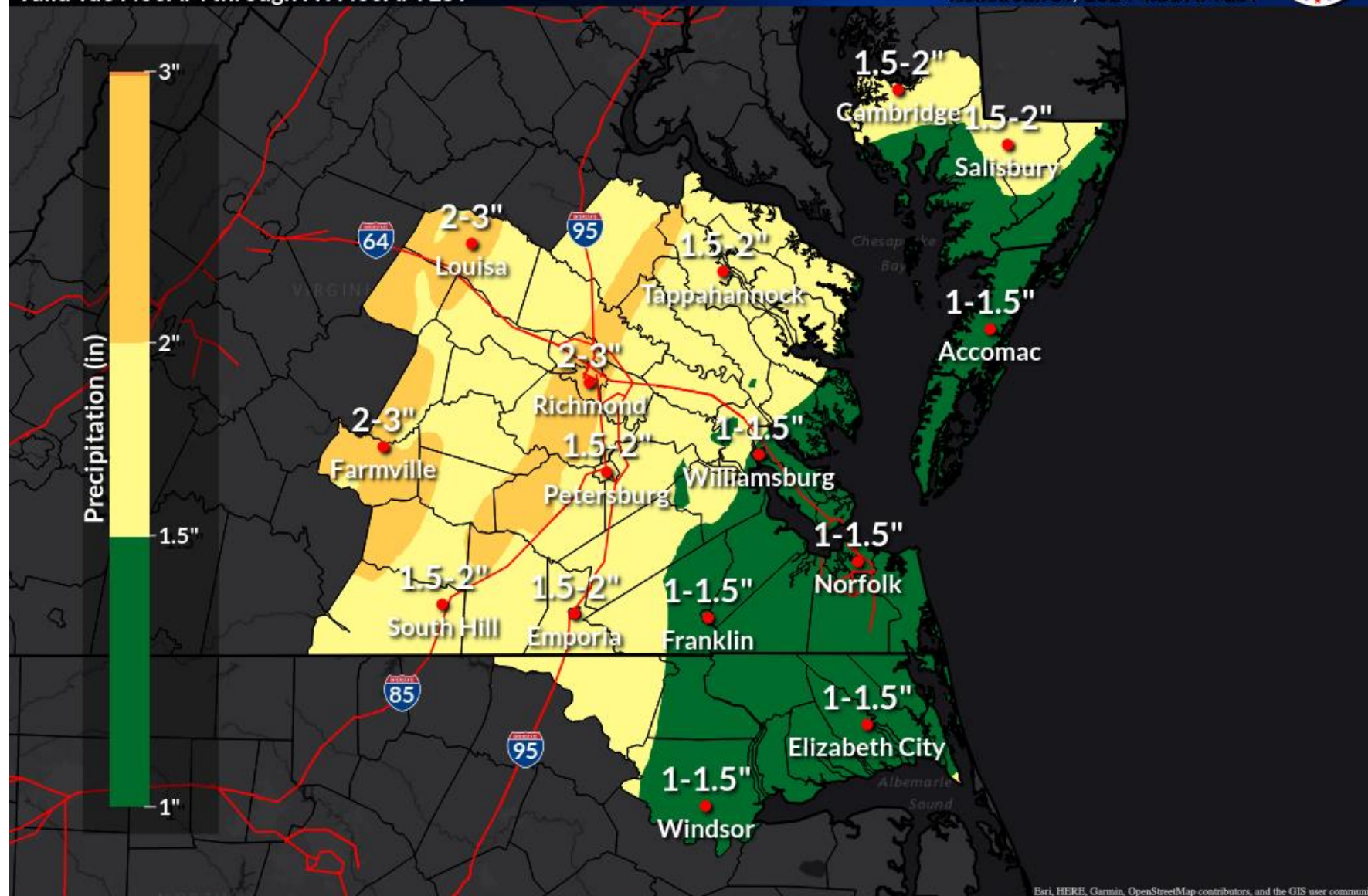
January 9, 2024  
3:00 PM

## 72-hour Precipitation Amount

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

Weather Forecast Office  
Wakefield, VA

Issued Jan 09, 2024 4:31 AM EST



- Moderate to heavy rain is expected to continue in waves this evening through 10 pm.
- The greatest amounts are expected across the mountains and Piedmont placing the heaviest rainfall in the headwaters of the James and other main rivers

f NWSWakefieldVA

weather.gov/akq



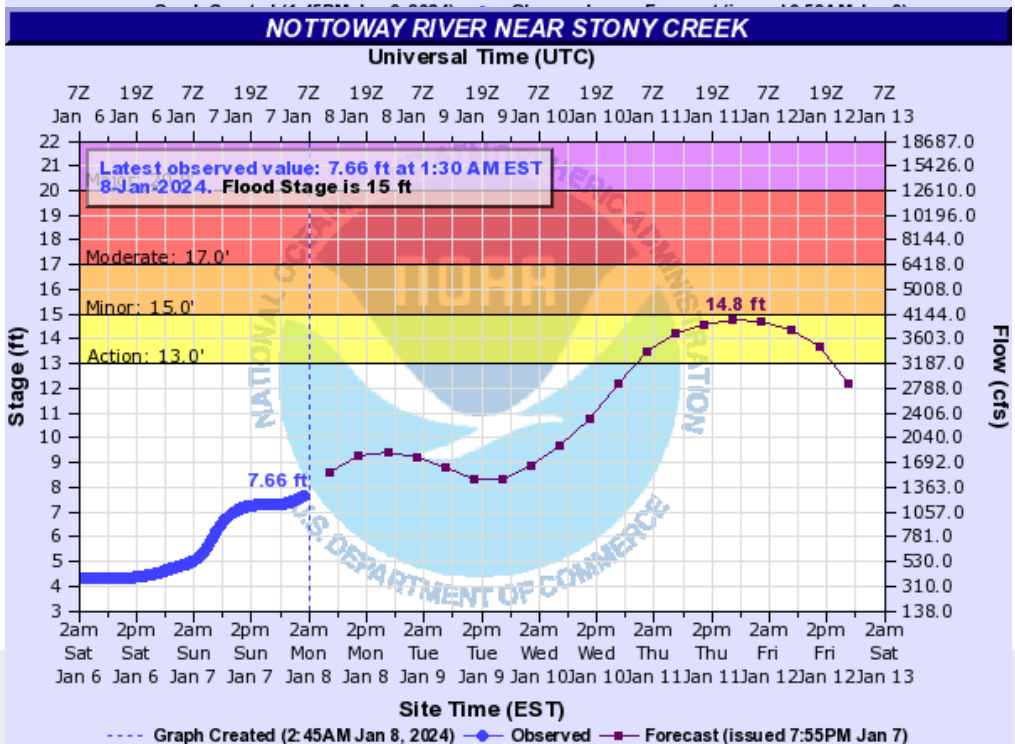
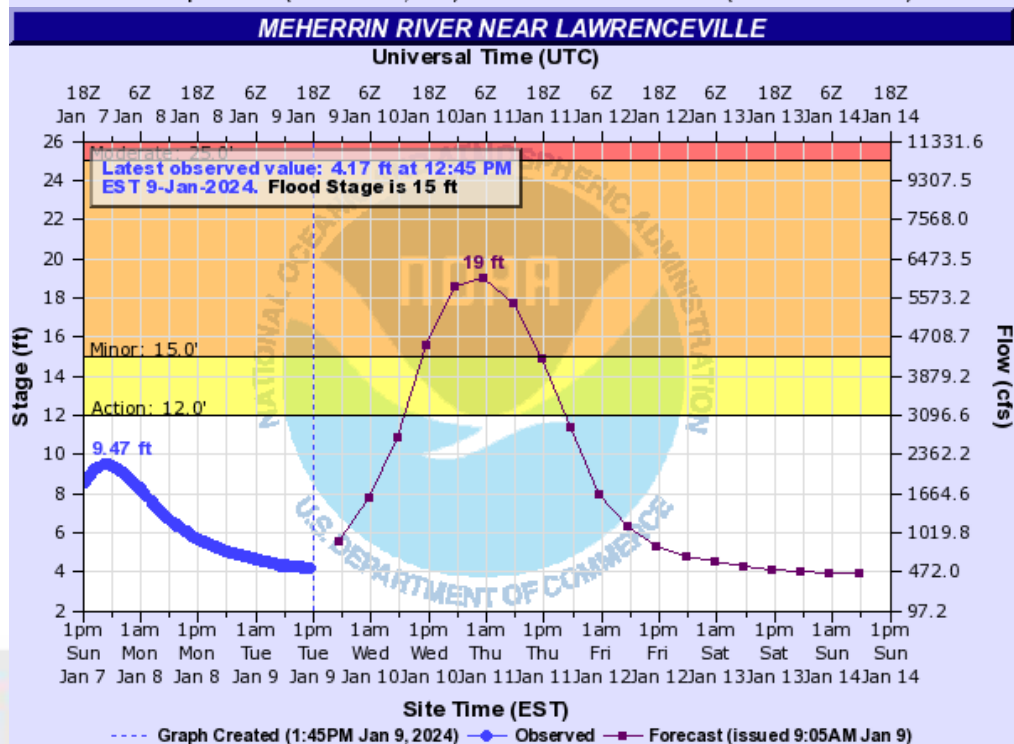
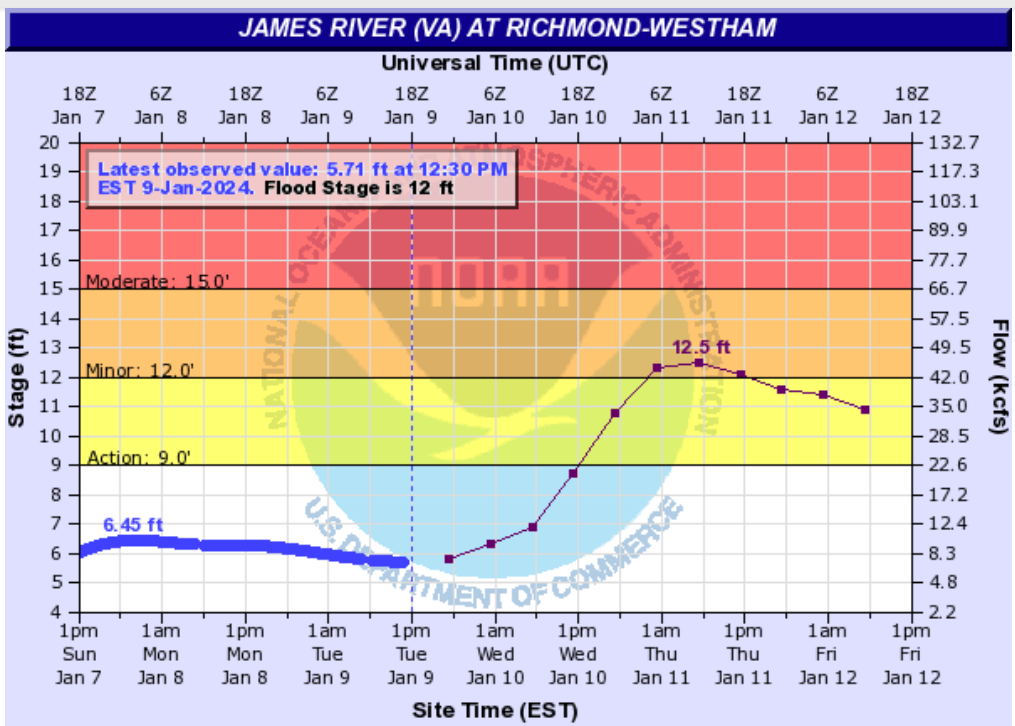
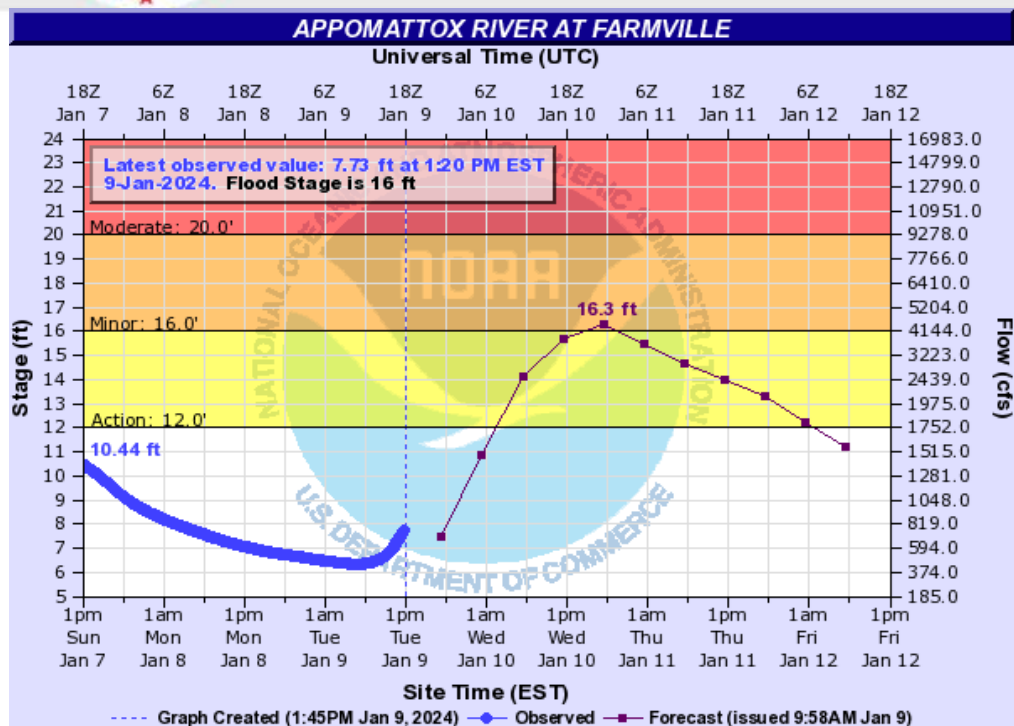
National Oceanic and  
Atmospheric Administration  
U.S. Department of Commerce

National Weather Service  
Wakefield, VA



# River Flooding Overview

January 9, 2024  
3:00 PM



## Summary of River Flooding

- Minor flooding across portions of the James/Appomattox and Chowan River Basins is expected.
- Rivers will crest primarily from late Wednesday into Thursday.

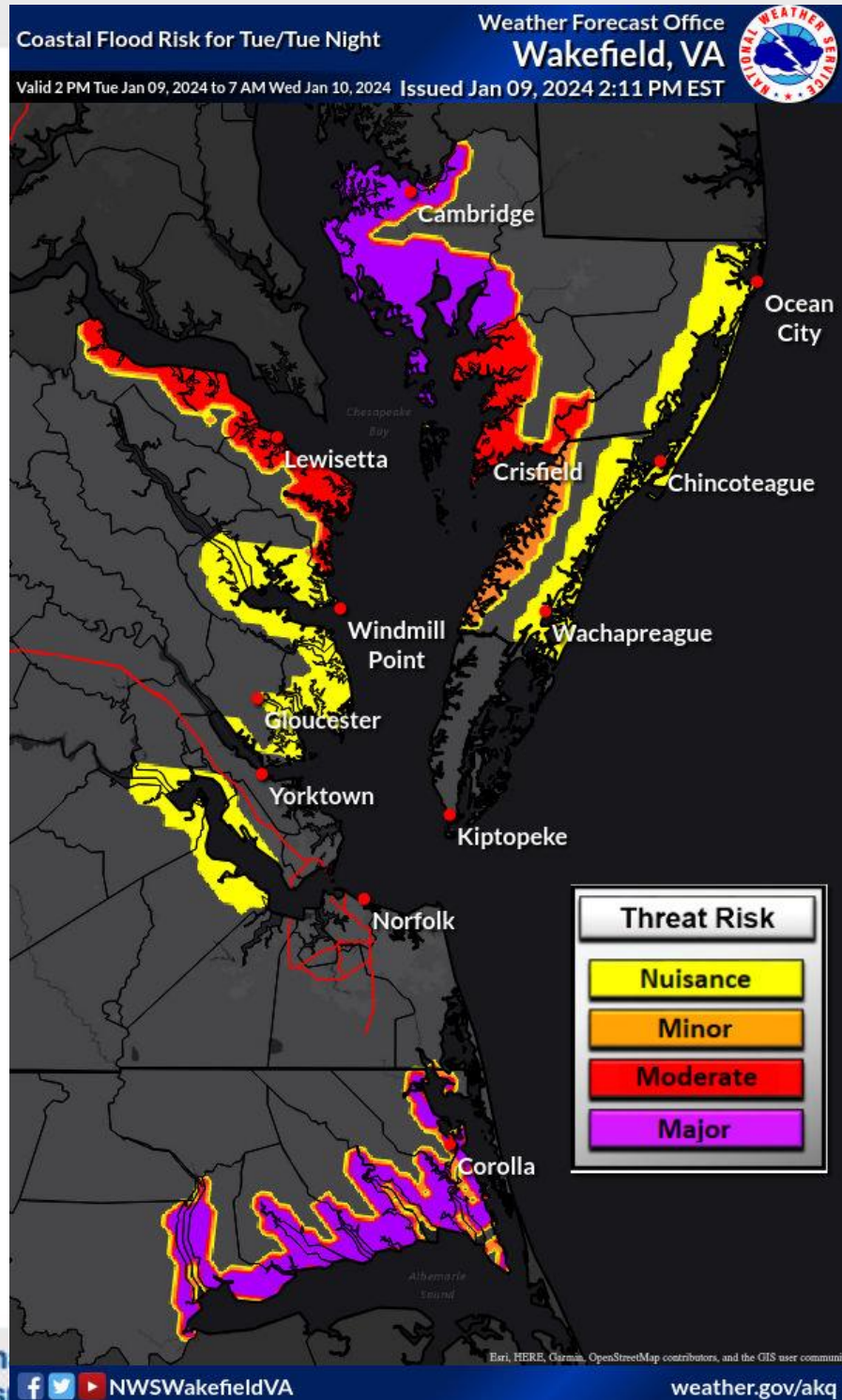
National Weather Service  
Wakefield, VA





# Tidal Flooding Overview

January 9, 2024  
3:00 PM



- Strong southeast winds will push water up the Chesapeake Bay, tidal rivers and the northern shore of the Albemarle Sound.
- Major tidal flooding is expected for the bay-side of the lower MD Eastern Shore. Widespread moderate tidal flooding is expected from Windmill Point to Lewisetta and along the eastern shore around Bayford.
- 2 to 3 ft of inundation (more more) is possible. Water will likely close roads and threaten some homes and businesses in some areas in areas of Major to Moderate flooding.

[Coastal Flood Webpage](https://www.weather.gov/erh/coastalflood?wfo=akq)

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

National Weather Service  
Wakefield, VA

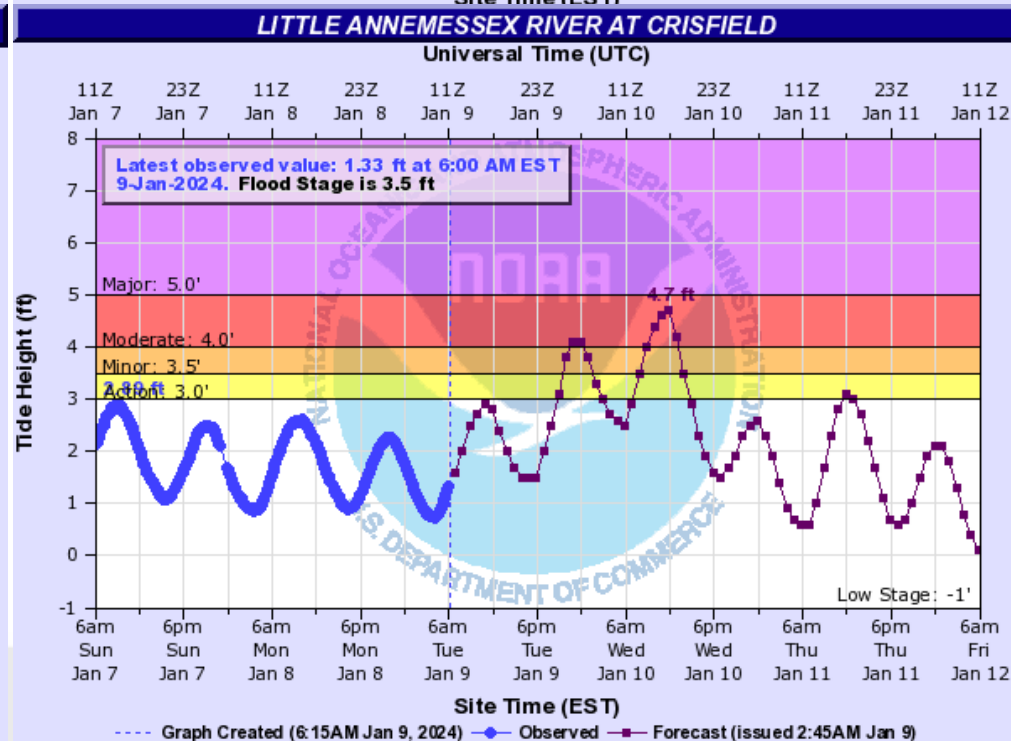
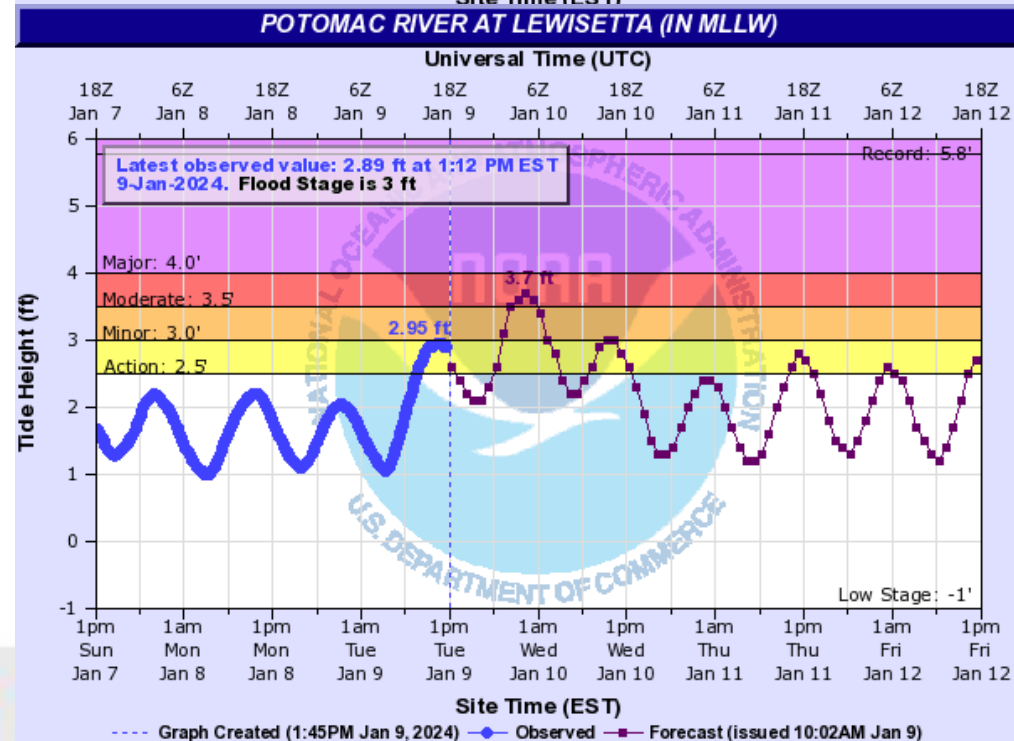
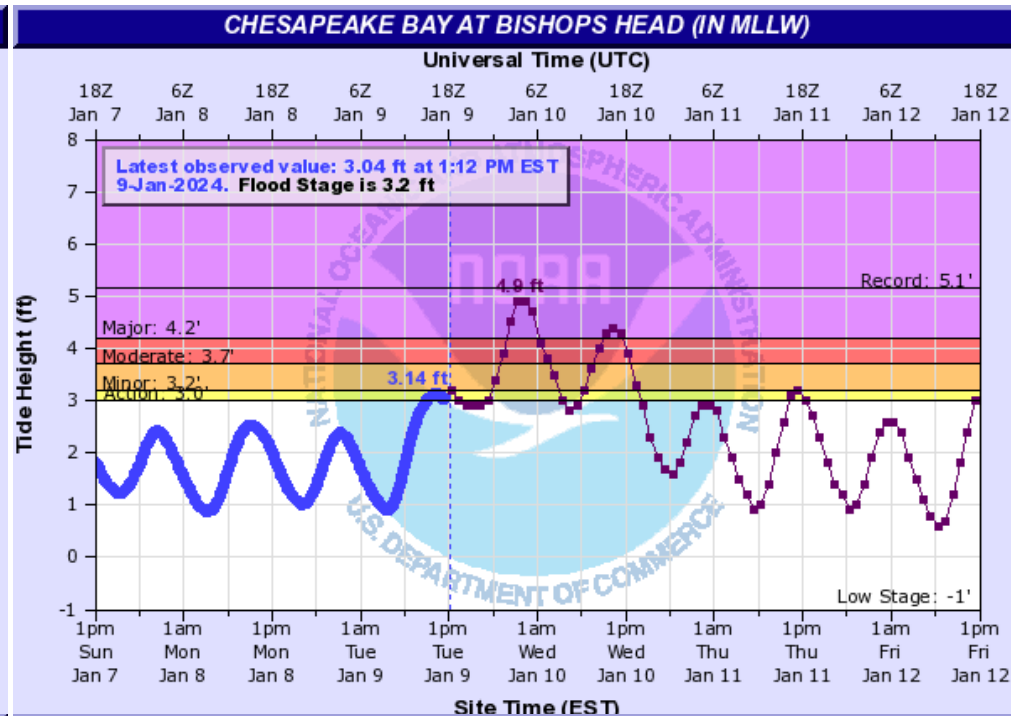
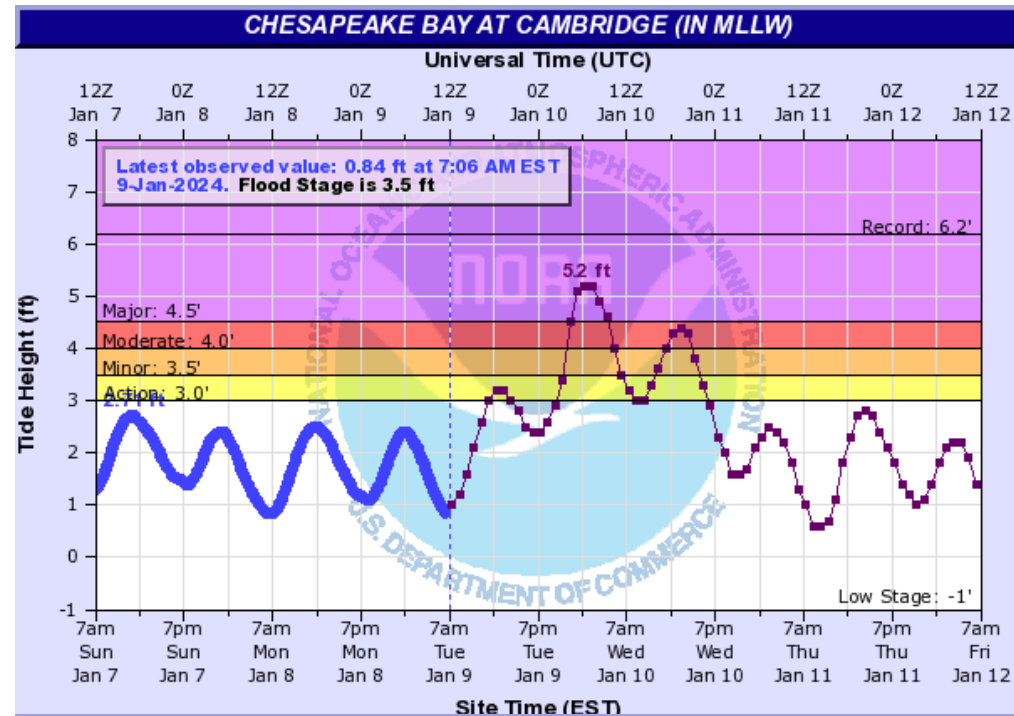




# Tidal Overview - Upper Bay

January 9, 2024  
3:00 PM

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



## Summary of Tidal Trends

- Moderate to major tidal flooding is likely over portions of the middle and upper Chesapeake Bay and tributaries.
- Timing of peak tides will be this evening into early Wednesday.
- 2 to 3 ft of inundation (or more) is possible. Water will likely close roads and threaten some homes and businesses in some areas in areas of Major to Moderate flooding.

[Coastal Flood Webpage](#)

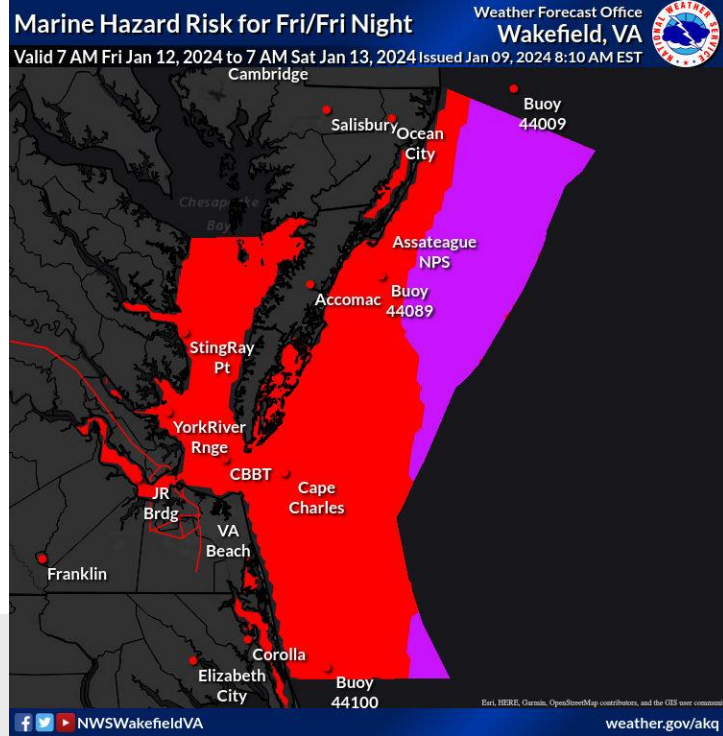
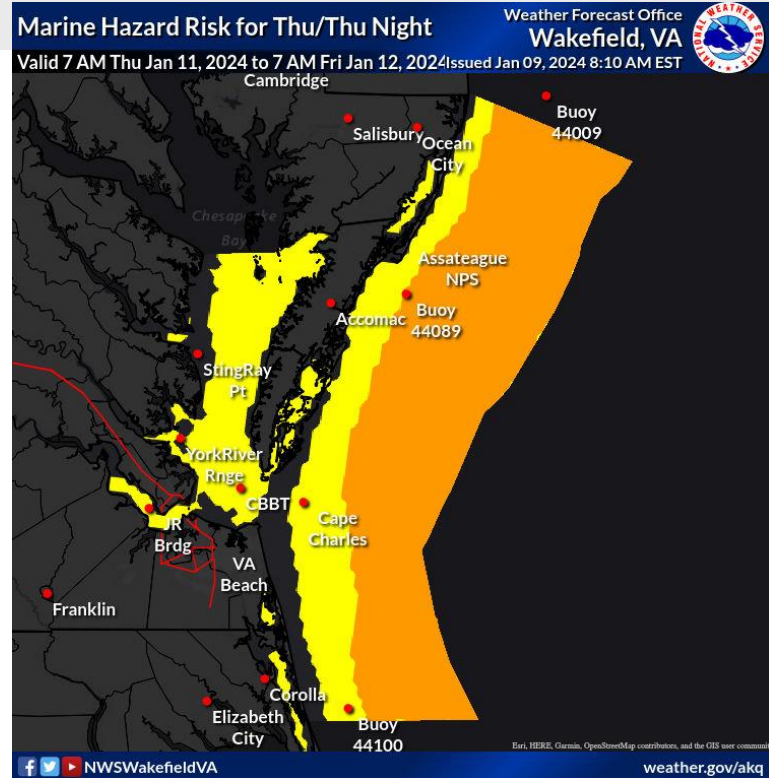
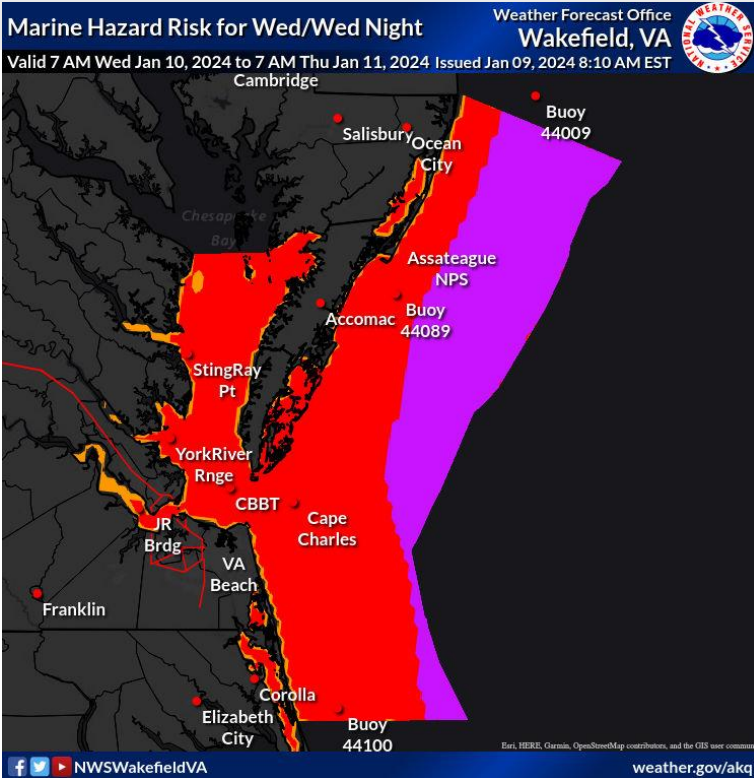
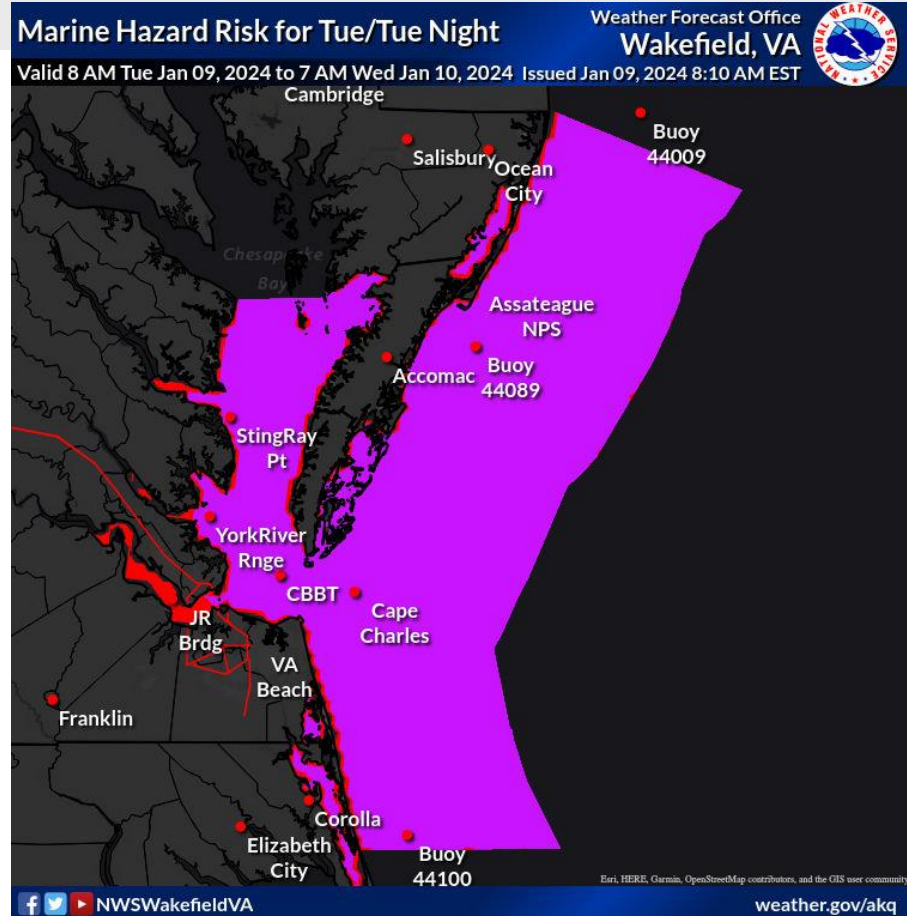
**National Weather Service  
Wakefield, VA**





# Marine Threat Potential - Next 5 Days

January 9, 2024  
3:00 PM



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).

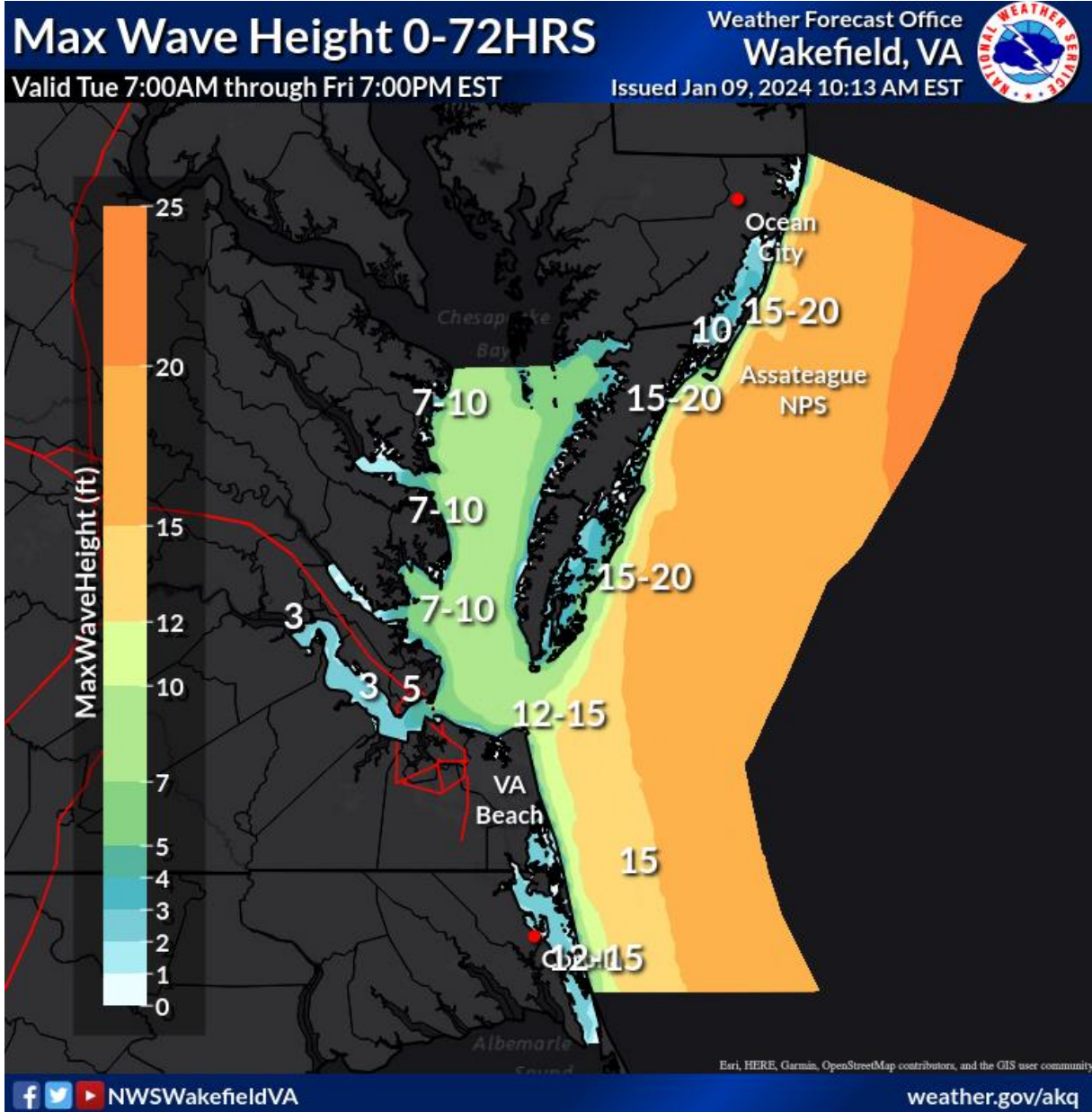
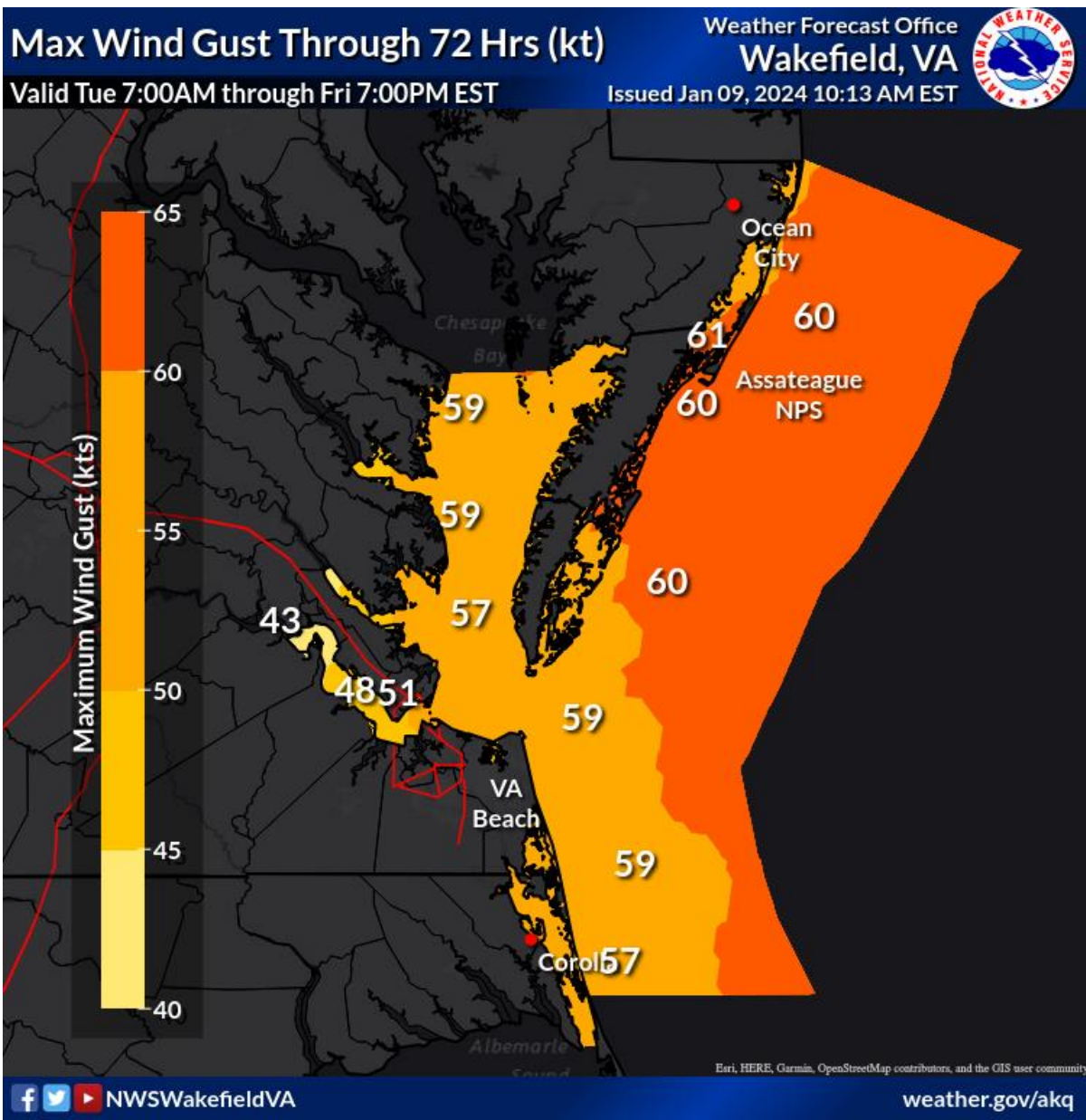






# Marine Threat Potential

January 9, 2024  
3:00 PM



## Key Points:

- Storm Warnings are in effect for the Bay and all coastal waters.
- SE winds increase to 30 kt gust 40 kt, then SE 40 kt gust 50 kt this evening through midnight.
- Waves on the Bay rapidly build to 7 to 10 ft Tue evening, 12 to 20 ft on the ocean.
- Outlook: Gale conditions persist until noon Wed with a WSW wind

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





# Marine Wind Forecast Summary

January 9, 2024  
3:00 PM

## Sustained Wind

Maximum Wind Speed Forecast

	1/9 Tue		1/10 Wed				1/11 Thu	
	12pm	6pm	12am	6am	12pm	6pm	12am	6am
CBBT	39↗	42↗	29↗	33↗	30↗	20↗	14↗	12↗
Cape Henry	39↗	42↗	29↗	33↗	29↗	20↗	15↗	12↗
Chesapeake Light	40↗	43↗	32↗	35↗	30↗	22↗	17↗	14↗
Chincoteague Shoal	37↗	43↗	33↗	31↗	30↗	21↗	16↗	13↗
Duck, NC	37↗	40↗	28↗	31↗	27↗	18↗	15↗	12↗
Fenwick Shoal	33↗	41↗	36↗	29↗	28↗	18↗	13↗	13↗
HRBT	34↗	35↗	24↗	28↗	27↗	16↗	10↗	10↗
JRB	30↗	31↗	24↗	28↗	26↗	14↗	8↗	10↗
New Point Comfort	38↗	40↗	26↗	28↗	27↗	17↗	12↗	11↗
Parramore Banks	37↗	42↗	31↗	31↗	29↗	21↗	16↗	13↗
Rappahannock Light	39↗	40↗	27↗	28↗	27↗	18↗	14↗	13↗
Tangier	38↗	42↗	27↗	29↗	27↗	20↗	15↗	13↗
Thimble Shoal	38↗	39↗	27↗	33↗	29↗	19↗	13↗	12↗

\*Table values in kt  
\*\*Created: 2 pm EST Tue 1/9/2024  
\*\*\*Values are maximums over the period beginning at the time shown.

## Wind Gusts

Maximum Wind Gust Forecast

	1/9 Tue		1/10 Wed				1/11 Thu	
	12pm	6pm	12am	6am	12pm	6pm	12am	6am
CBBT	50↗	53↗	37↗	42↗	37↗	25↗	18↗	15↗
Cape Henry	49↗	53↗	36↗	42↗	36↗	25↗	19↗	15↗
Chesapeake Light	50↗	54↗	40↗	44↗	37↗	28↗	21↗	18↗
Chincoteague Shoal	46↗	54↗	42↗	39↗	38↗	27↗	20↗	17↗
Duck, NC	48↗	51↗	36↗	40↗	34↗	23↗	19↗	16↗
Fenwick Shoal	42↗	53↗	47↗	37↗	36↗	26↗	18↗	19↗
HRBT	46↗	47↗	33↗	38↗	36↗	21↗	13↗	14↗
JRB	41↗	42↗	32↗	38↗	36↗	20↗	11↗	13↗
New Point Comfort	50↗	53↗	34↗	37↗	36↗	23↗	16↗	14↗
Parramore Banks	47↗	53↗	39↗	39↗	36↗	26↗	20↗	17↗
Rappahannock Light	48↗	50↗	33↗	35↗	34↗	23↗	18↗	16↗
Tangier	48↗	53↗	34↗	36↗	34↗	25↗	19↗	16↗
Thimble Shoal	47↗	49↗	34↗	41↗	36↗	23↗	16↗	15↗

\*Table values in kt  
\*\*Created: 2 pm EST Tue 1/9/2024  
\*\*\*Values are maximums over the period beginning at the time shown.







# Marine Wave Forecast Summary

January 9, 2024  
3:00 PM

## Wave Height Forecast

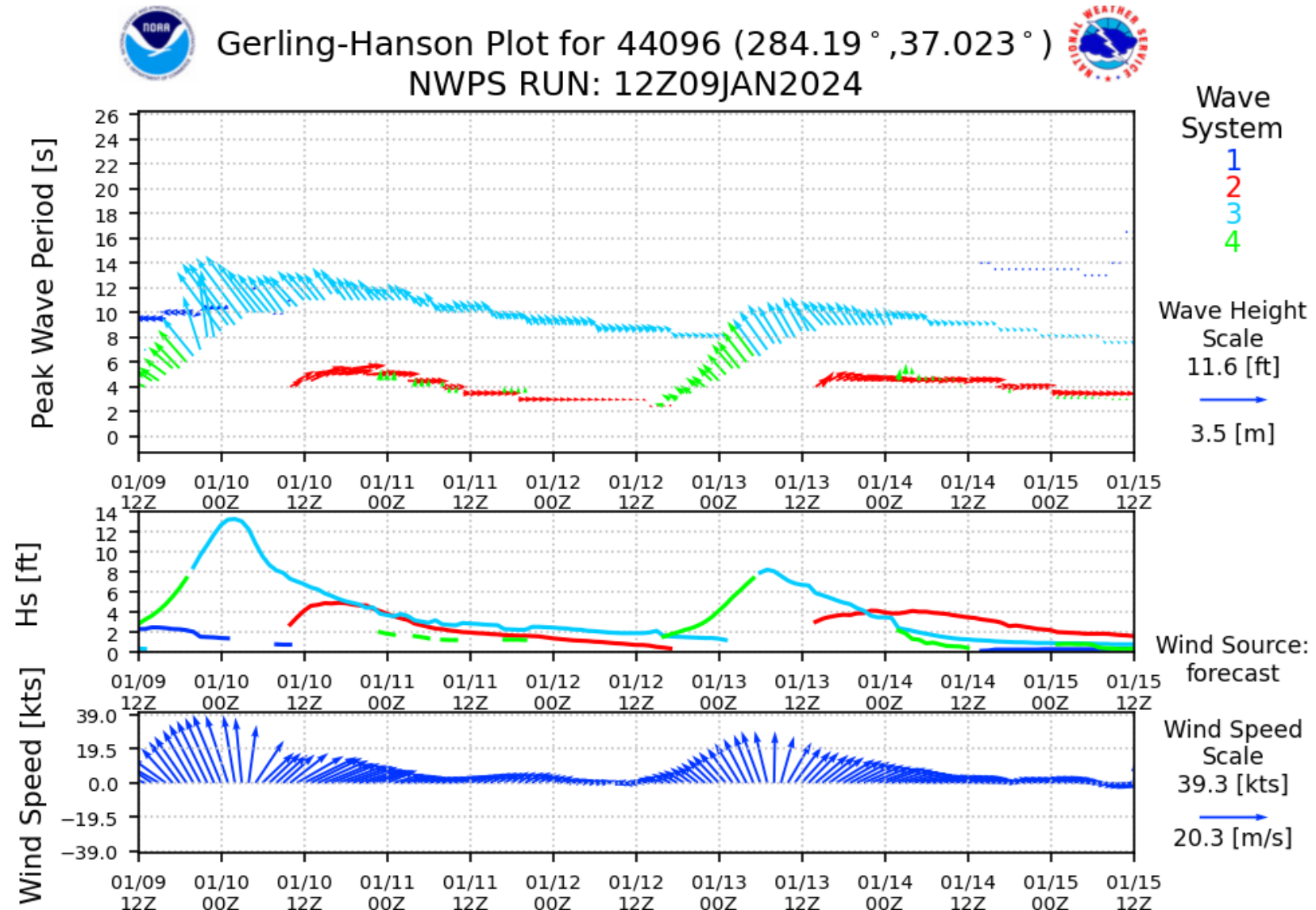
	1/9 Tue		1/10 Wed				1/11 Thu	
	12pm	6pm	12am	6am	12pm	6pm	12am	6am
CBBT	8.0	9.0	7.0	6.0	6.0	4.0	3.0	3.0
Cape Henry	10.0	12.0	10.0	7.0	6.0	5.0	4.0	3.0
Chesapeake Light	12.0	16.0	14.0	10.0	9.0	7.0	5.0	5.0
Chincoteague Shoal	10.0	15.0	14.0	12.0	9.0	8.0	5.0	4.0
Duck, NC	10.0	12.0	10.0	7.0	6.0	5.0	4.0	3.0
Fenwick Shoal	10.0	15.0	15.0	12.0	10.0	8.0	6.0	5.0
HRBT	5.0	5.0	4.0	4.0	3.0	2.0	1.0	1.0
JRB	3.0	3.0	2.0	2.0	2.0	2.0	1.0	1.0
New Point Comfort	7.0	8.0	5.0	4.0	4.0	2.0	2.0	1.0
Parramore Banks	11.0	14.0	13.0	10.0	8.0	7.0	5.0	4.0
Rappahannock Light	7.0	8.0	7.0	5.0	5.0	3.0	2.0	1.0
Tangier	6.0	7.0	6.0	5.0	4.0	3.0	2.0	1.0
Thimble Shoal	7.0	8.0	7.0	5.0	5.0	3.0	2.0	2.0

\*Table values in feet

\*\*Created: 2 pm EST Tue 1/9/2024

\*\*\*Values are maximums over the period beginning at the time shown.

## Cape Henry Model Wave







# Key Messages

January 9, 2024  
3:00 PM

- Strong low pressure and a cold front will track from the Appalachian Mountains this evening to off the Mid-Atlantic coast tonight.
- Moderate to heavy rain and strong winds will persist across the area this this evening and into tonight.
- Rain will persist this evening and exit the region late tonight. The heaviest rain will occur between 3 pm and midnight.
- Winds continue to increase late this afternoon peaking from 5 pm until midnight.
- There is a risk for strong to severe storms across northeast North Carolina and Southeast Virginia this evening. Strong, damaging wind gusts are the main threat, but there is also a potential for tornadoes.
- There will be the potential for localized power outages from wind and flooding from rainfall in addition to tidal flooding.







# Contact and Next Briefing Information

January 9, 2024  
3:00 PM

For NWS Wakefield, Virginia



## Briefing Webpage

→ [NWS Wakefield Briefing](#)



## Next Briefing

- Final Briefing
- Method: Email and Online



## 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)

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### Twitter

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

