



Weekend Storm Briefing

December 16, 2023
8:34 AM

Prepared by National Weather Service Wakefield, VA

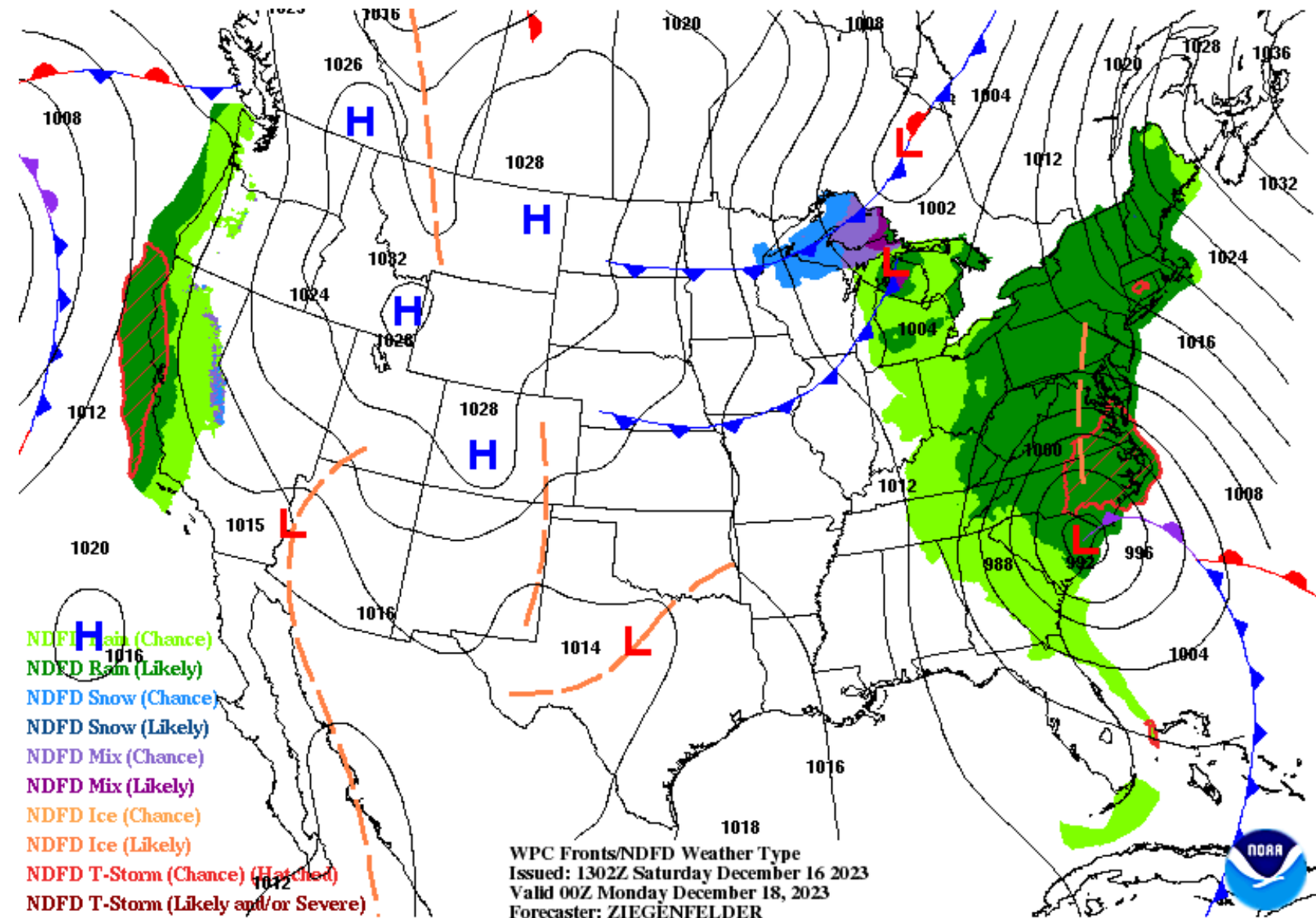
Decision Support Briefing #2

→ As of 8:35 AM EST
Saturday, December 16, 2023

NEW

Important Updates

- Gale Watches have been upgraded to Gale Warnings in all marine zones
- Wind Advisories have been issued along the coast
- Coastal Flood Watches are in effect for areas along the Albemarle Sound in addition to the bay side of the MD Eastern Shore
- High Surf Advisories have been issued along the Atlantic coast



Disclaimer: Information may become outdated after briefing time. Consult weather.gov/wakefield for the latest information.



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Key Messages

December 16, 2023
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- Moderate to heavy rain is expected Sunday through Monday morning with a widespread 2-3" (locally higher) of accumulation expected. This may lead to localized flooding, especially in urban areas and areas with poor drainage.
- Strong southeast winds expected Sunday afternoon through Monday. Strongest wind gusts will be Sunday evening with 45-55 mph gusts expected near the coast and 25-40 mph gusts expected inland. Wind advisories have been issued in areas along the coast (and may need to be expanded inland). Localized power outages possible.
- Potential for moderate coastal flooding in the middle/upper Chesapeake Bay and nuisance to minor flooding elsewhere. Highest tide would be Monday morning.
- Marine: Gale Warnings are in effect across all marine zones Sunday afternoon into early Monday afternoon. Strong southeast winds will gust 40-50 kt Sunday evening-Sunday night. Winds become west on Monday with 35-40 kt gusts expected. Seas build to 12-18 ft.





Summary of Greatest Impacts

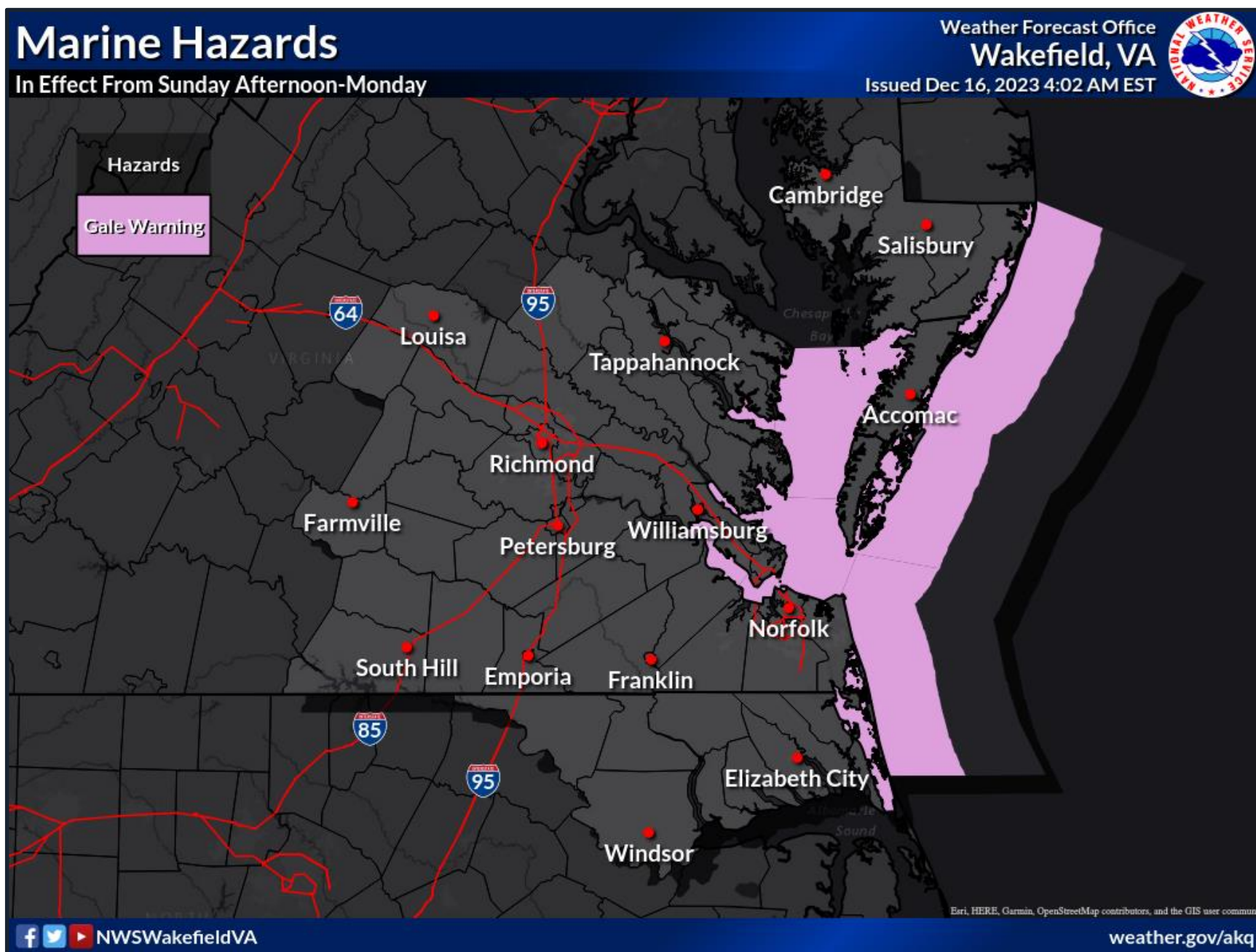
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Hazard	Impacts	Location	Timing
 Heavy Rain	Rainfall of 2-3" (locally higher) may lead to localized flooding, especially in urban areas	Entire forecast area	Sunday morning through Monday morning
 High Wind	Gusts of 45 to 55 mph may result in localized power outages	Near/along the coast	Sunday afternoon into Monday morning. Highest Sunday evening
Severe Thunderstorms	There is a chance of a few thunderstorms, some of which may become severe with wind gusts in excess of 60 mph.	Southeast Virginia and Northeast North Carolina	Sunday evening through early Monday morning
 Coastal Flooding	Moderate tidal flooding (inundation of 1-2 ft AGL in vulnerable areas). Localized beach/dune erosion possible.	Middle and upper Chesapeake Bay (Lewisetta, VA - Cambridge, MD) North side of the Albemarle Sound. Atlantic coast for beach erosion.	Sunday night through Monday morning
 Marine	Strong SE winds with gusts of 40-50 kt and seas 12-18 ft	All waters coastal and nearshore waters	Sunday afternoon into Monday morning. Highest winds Sunday evening.



Marine Wind Hazard Overview

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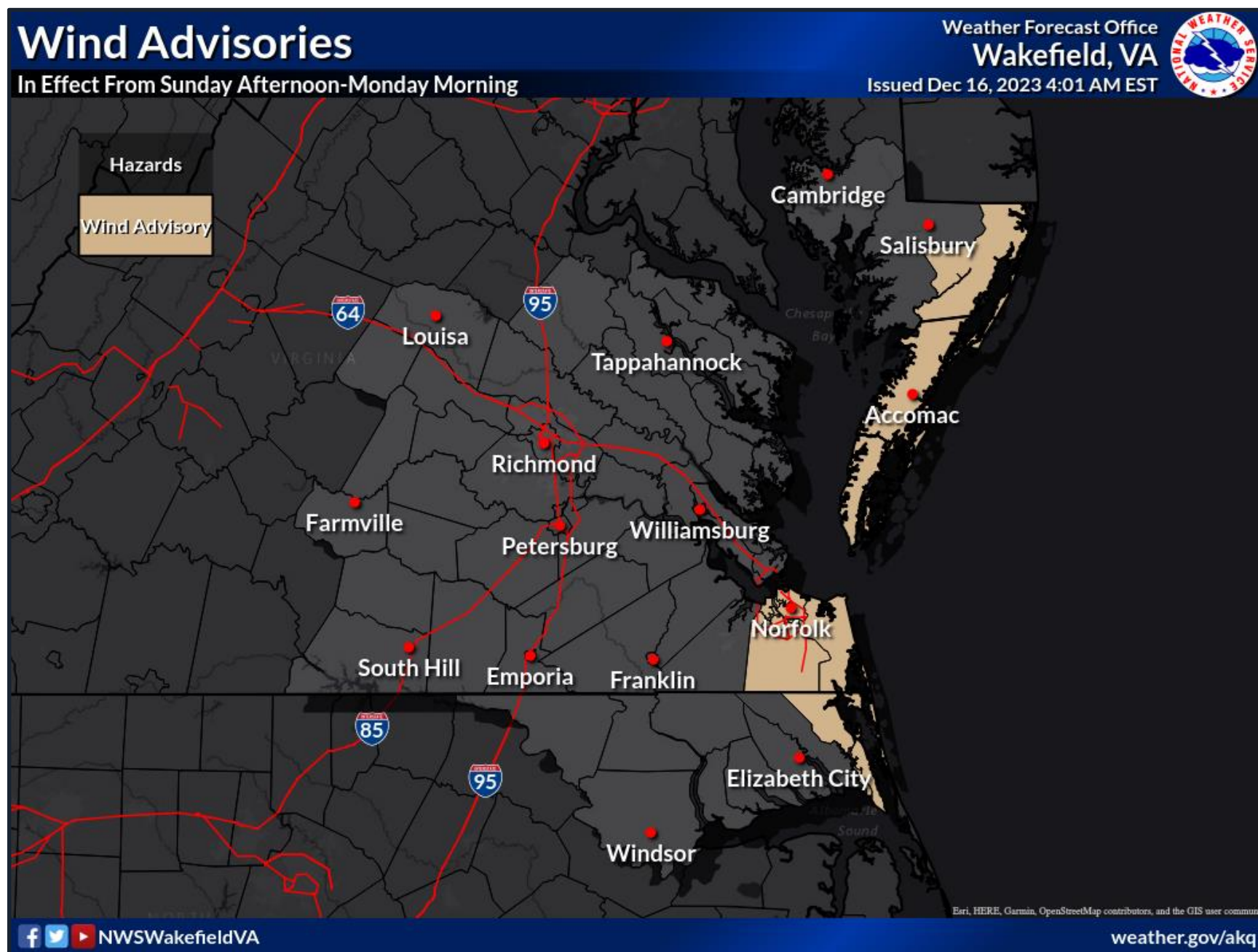
- Gale Watches have been upgraded to Gale Warnings for all marine zones.
- Expect SE winds to gust to 40-50 kt Sunday evening-Sunday night. Winds become W on Monday, with gusts of 35-40 kt expected.
- See www.weather.gov/akq for the latest information





Land Wind Hazard Overview

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- Wind Advisories have been issued along the coast from Sunday afternoon-Sunday night.
- SE winds will gust to 45-55 mph in the advisory area.
- Advisories may need to be expanded farther inland with later updates.
- See www.weather.gov/akq for the latest information



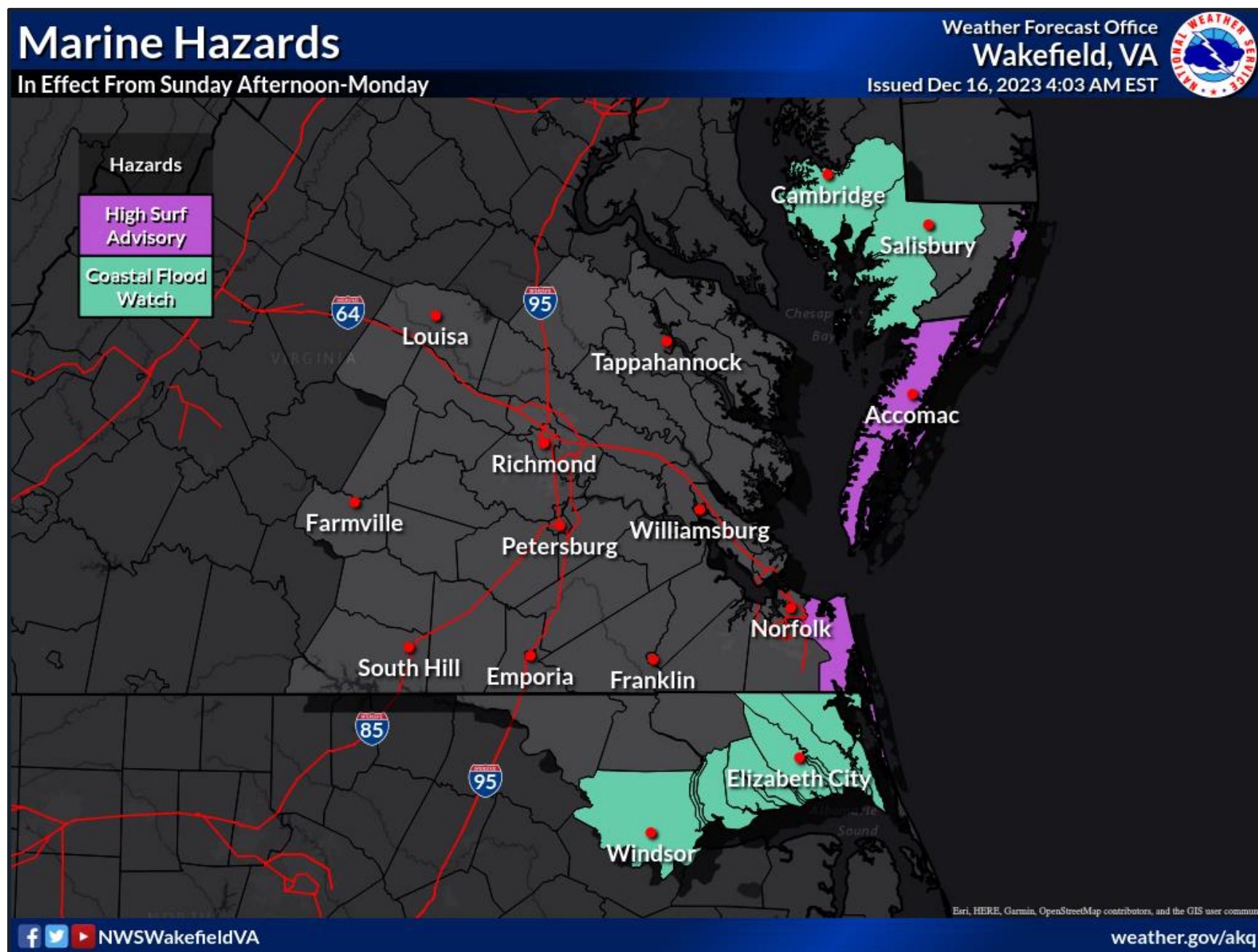
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Coastal Flood Hazard Overview

December 16, 2023
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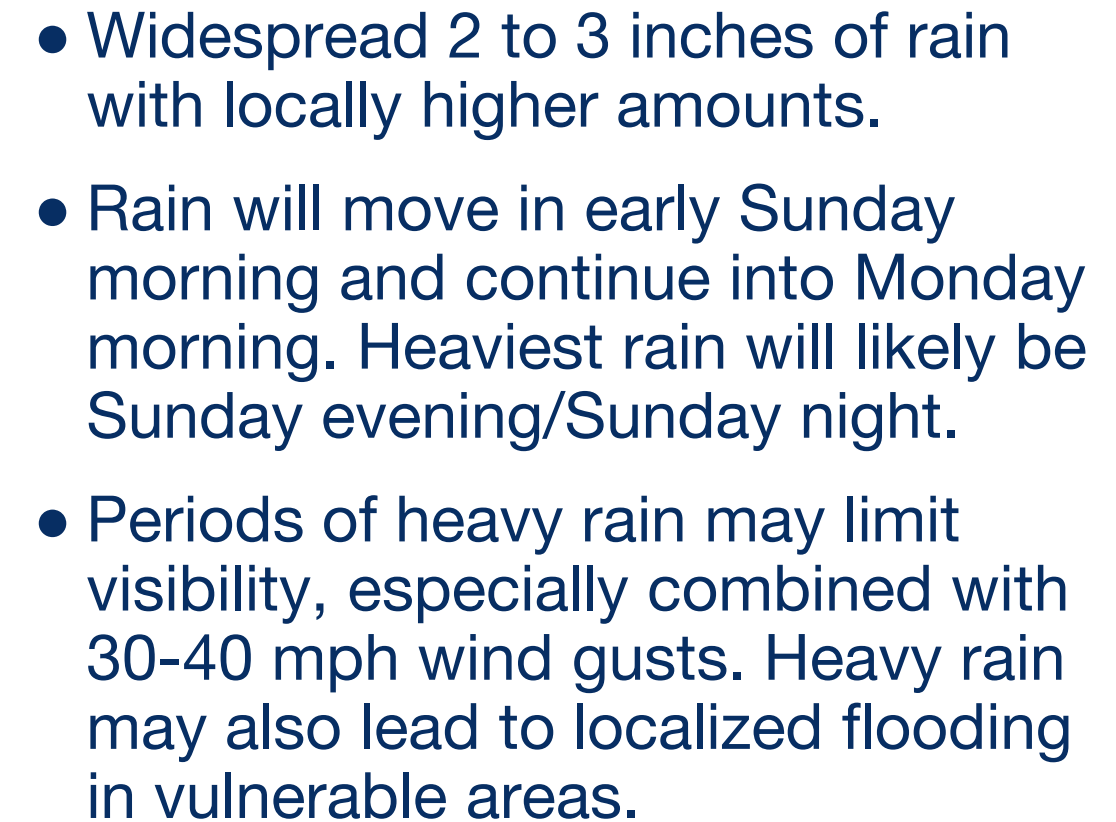


- Coastal Flood Watches are in effect for areas along the Albemarle Sound and bay side of the MD Eastern Shore. High Surf Advisories are in effect along the Atlantic coast.
- Watches / Advisories may need to be expanded across a larger portion of the Bay and tidal rivers.
- Up to 2 feet of inundation above ground level is possible in flood prone areas.
- See www.weather.gov/akq for the latest information





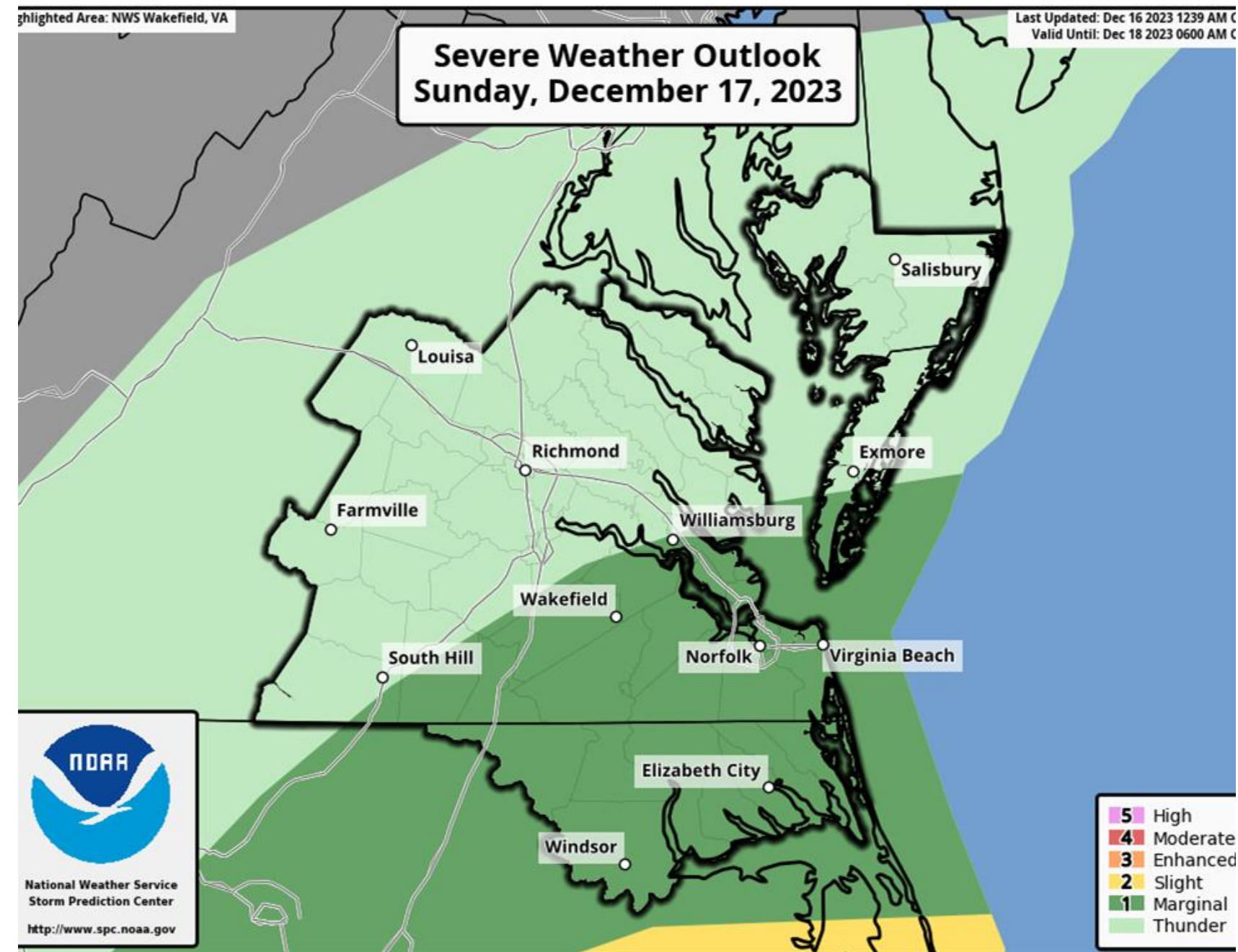
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Severe Threat - Sunday Evening

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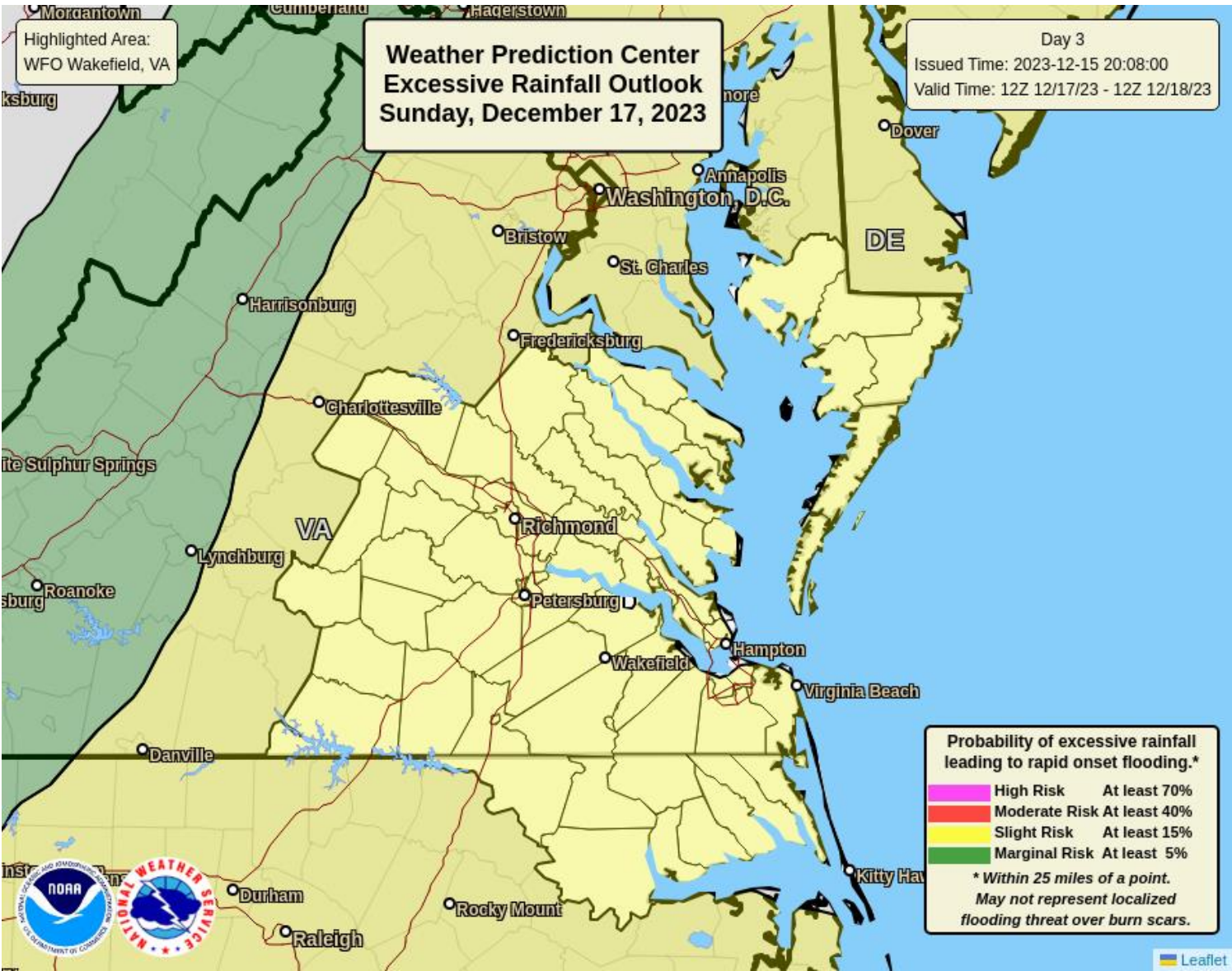


- There is a marginal risk for a few isolated severe thunderstorms across southern and southeast Virginia and northeast North Carolina Sunday evening.
- The main threat is damaging wind gusts to 60+ mph. However, cannot rule out an isolated tornado.



Flood Threat - Sunday

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- There is a slight risk for flash flooding across the entire area Sunday
- Urban areas will be at greatest risk for flooding.

MARGINAL	SLIGHT	MODERATE	HIGH
Isolated flash floods possible	Scattered flash floods possible	Numerous flash floods likely	Widespread flash floods expected

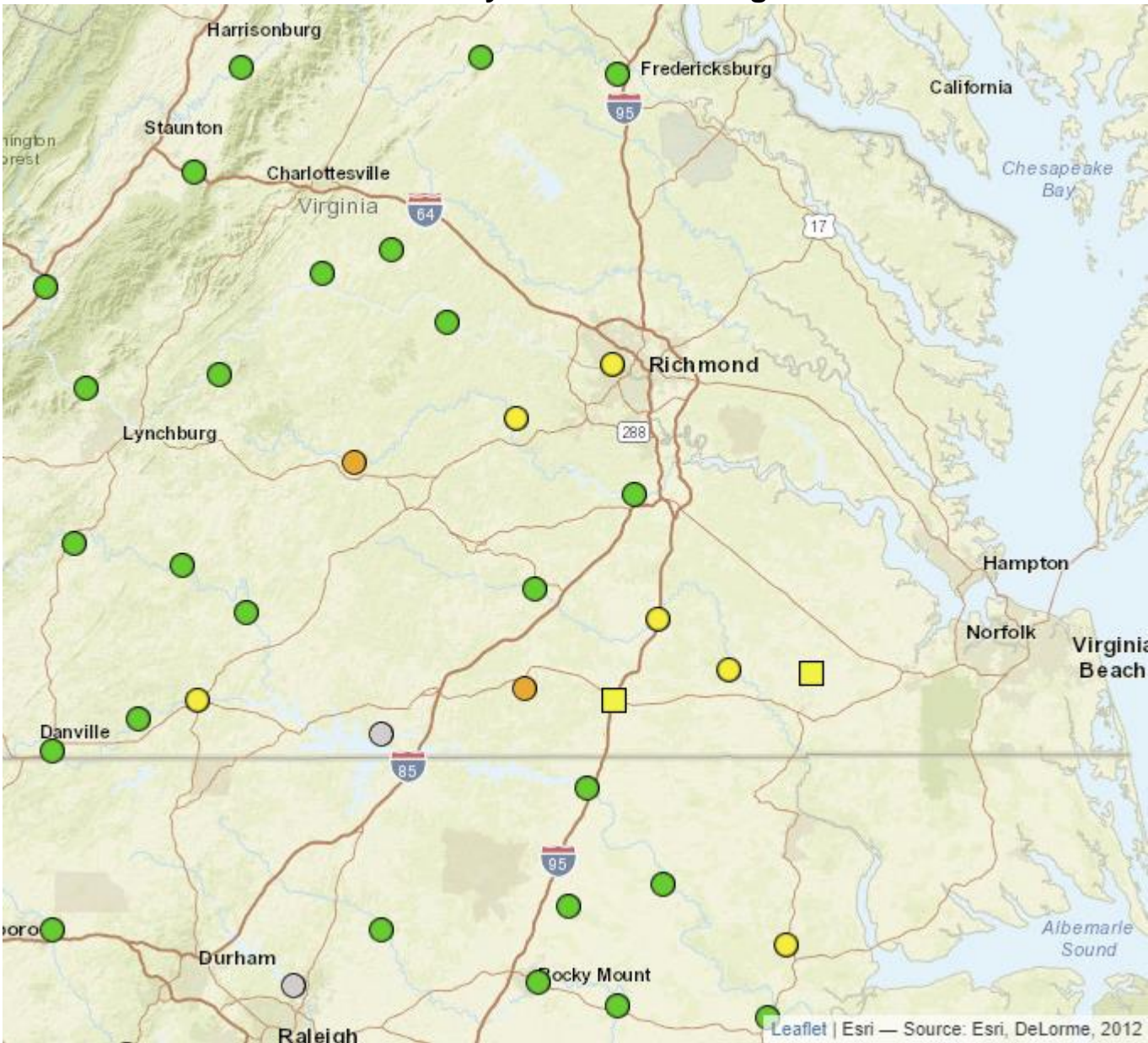




Minor River Flooding Possible

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Probability of River Flooding



- River points highlighted in yellow and orange have the potential to see nuisance to minor flooding from the upcoming rainfall.
- Nuisance to minor flooding is also possible for portions of the Blackwater River and Chickahominy River (near Providence Forge).

Chance of Exceedance		
30%	Level	70%
	Action	
	Minor Flood	
	Moderate Flood	
	Major Flood	
= less than 30% chance of reaching Action level		





High Wind Potential

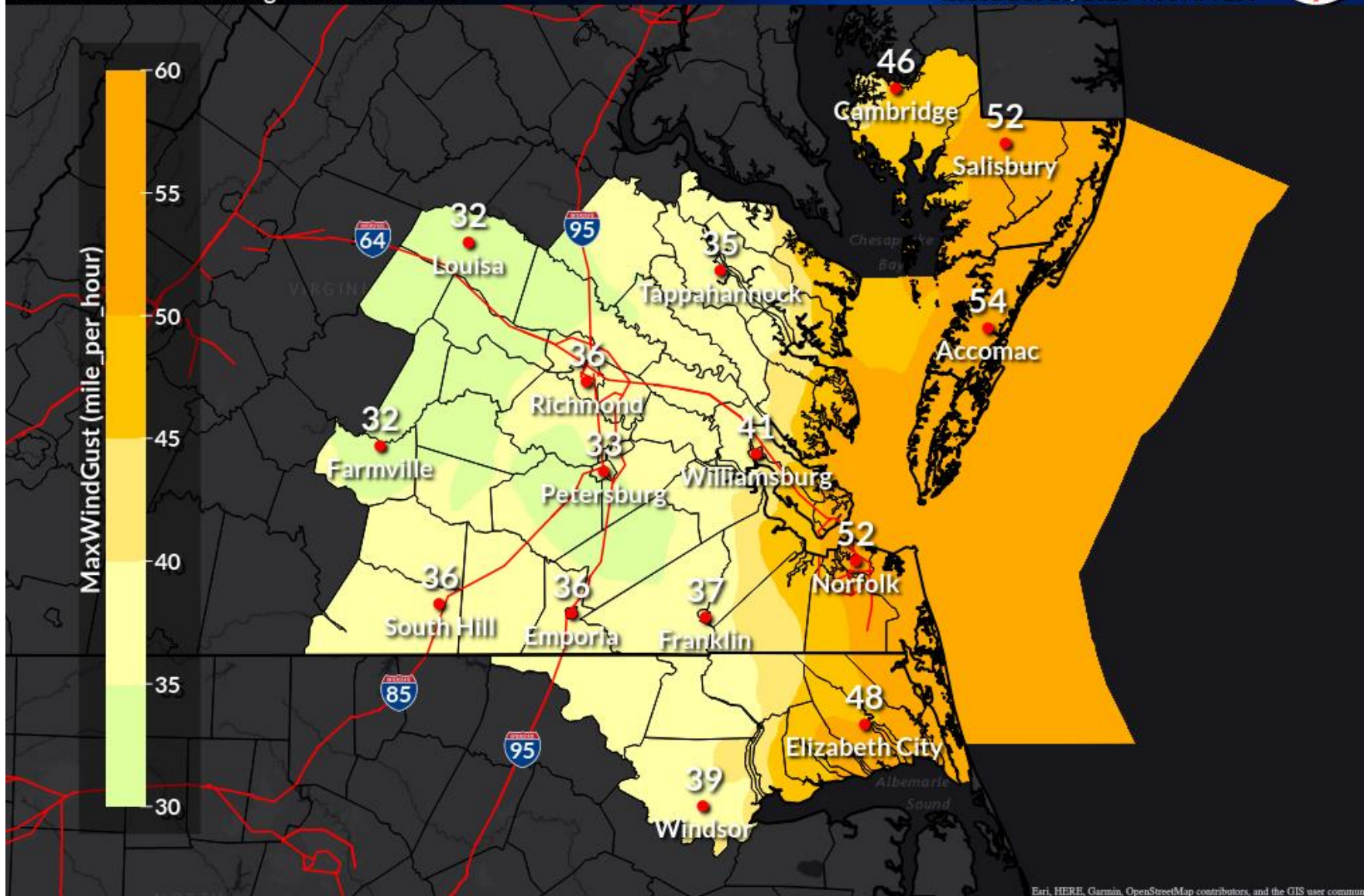
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Max Wind Gust Through 72 Hrs

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

Weather Forecast Office
Wakefield, VA

Issued Dec 16, 2023 4:30 AM EST



- Gusty southeast winds are expected Sunday afternoon through Monday morning, becoming westerly and remaining gusty Monday
- Highest wind gusts (45-55 mph) are expected along the coast Sunday evening-early Monday morning. Wind Advisories have been issued in areas along the coast, and may need to be expanded inland.
- Downed tree limbs/power lines could result in isolated to scattered power outages

f NWSWakefieldVA

weather.gov/akq



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Timing of Wind and Rain (wind in mph)

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Maximum Wind Gust Forecast

	12/17 Sun				12/18 Mon				12/19 Tue			
	12am	6am	12pm	6pm	12am	6am	12pm	6pm	12am	6am	12pm	6pm
Accomac	13↙	18↙	29↙	48↘	51↘	44↗	41↗	26↗	31↗	35↗	35↗	31↗
Ahoski	12↙	21↙	31↙	37↘	32↘	35↗	33↗	21↗	22↗	24↗	25↗	15↗
Cambridge	12↙	16↙	21↙	39↘	43↘	43↗	39↗	25↗	28↗	32↗	35↗	29↗
Corolla	17↙	28↙	43↙	52↘	49↘	39↗	35↗	26↗	31↗	30↗	29↗	26↗
Elizabeth City	12↙	23↙	38↙	46↘	43↘	36↗	35↗	22↗	26↗	25↗	28↗	21↗
Emporia	9↙	16↙	24↙	25↙	30↗	33↗	31↗	24↗	24↗	24↗	24↗	16↗
Farmville	7↙	13↙	18↙	22↙	30↗	30↗	30↗	24↗	22↗	21↗	22↗	15↗
Louisa	6↙	10↙	16↙	21↙	30↗	30↗	30↗	22↗	21↗	22↗	24↗	15↗
Norfolk / Portsmouth	12↙	21↙	35↙	48↘	45↘	39↗	36↗	23↗	26↗	29↗	30↗	24↗
Ocean City	15↙	18↙	26↙	47↘	51↘	41↗	40↗	26↗	29↗	32↗	33↗	30↗
Richmond	7↙	13↙	21↙	25↙	31↗	35↗	33↗	24↗	22↗	24↗	25↗	18↗
Salisbury	10↙	17↙	24↙	45↘	48↘	44↗	43↗	25↗	28↗	32↗	35↗	28↗
South Hill	9↙	16↙	24↙	24↙	31↗	33↗	31↗	24↗	24↗	24↗	24↗	15↗
Tappahannock	7↙	13↙	20↙	33↙	31↗	31↗	31↗	21↗	21↗	24↗	28↗	20↗
Virginia Beach	16↙	24↙	38↙	51↘	51↘	40↗	37↗	26↗	31↗	32↗	31↗	28↗
Williamsburg	9↙	16↙	28↙	41↘	38↘	33↗	32↗	22↗	23↗	26↗	29↗	20↗

*Table values in mph

**Created: 8 am EST Sat 12/16/2023

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

Probability of Precipitation Forecast

	12/17 Sun				12/18 Mon				12/19 Tue			
	12am	6am	12pm	6pm	12am	6am	12pm	6pm	12am	6am	12pm	6pm
Accomac	5	50	85	100	100	85	60	20	25	25	10	0
Ahoski	20	90	100	100	85	75	35	10	10	10	0	0
Cambridge	5	45	90	100	100	95	70	20	20	20	5	0
Corolla	10	75	95	95	95	75	45	15	20	20	10	5
Elizabeth City	15	80	95	95	95	75	40	15	15	15	0	0
Emporia	20	85	100	100	95	90	35	10	10	10	0	0
Farmville	20	85	100	100	95	85	30	5	10	10	0	0
Louisa	10	80	95	95	95	90	35	10	20	20	0	0
Norfolk / Portsmouth	10	75	95	95	95	80	45	20	20	20	5	0
Ocean City	5	35	80	100	100	90	65	20	25	25	10	5
Richmond	15	80	95	100	100	95	40	15	15	15	0	0
Salisbury	5	45	90	100	100	90	70	20	25	25	5	0
South Hill	25	85	100	100	90	85	25	10	10	10	0	0
Tappahannock	10	65	95	100	100	95	50	20	20	20	0	0
Virginia Beach	10	70	95	100	100	80	45	20	20	20	10	0
Williamsburg	10	70	95	100	100	90	45	20	20	20	0	0

*Table values in %

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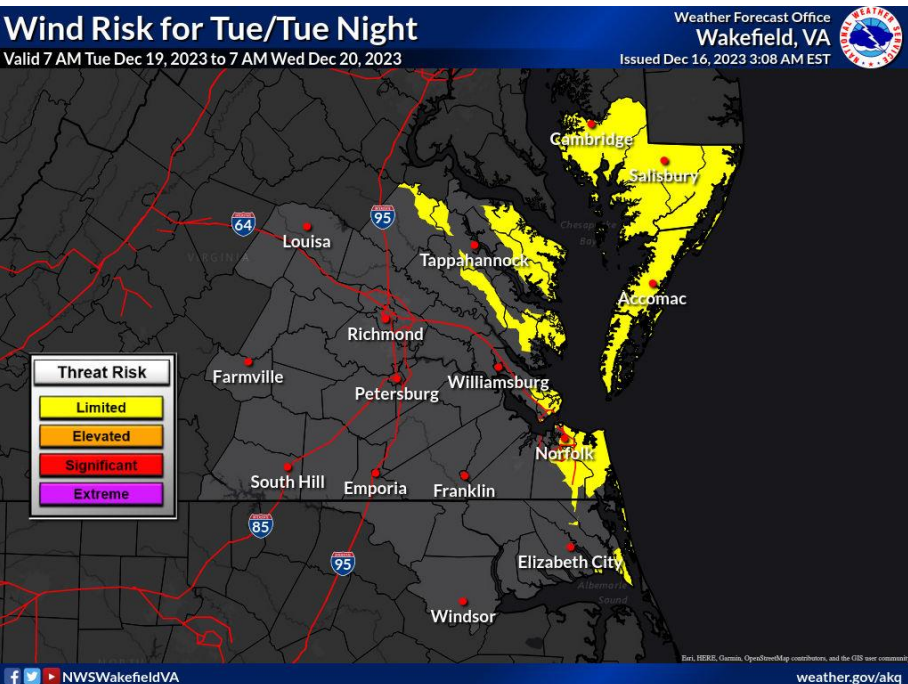
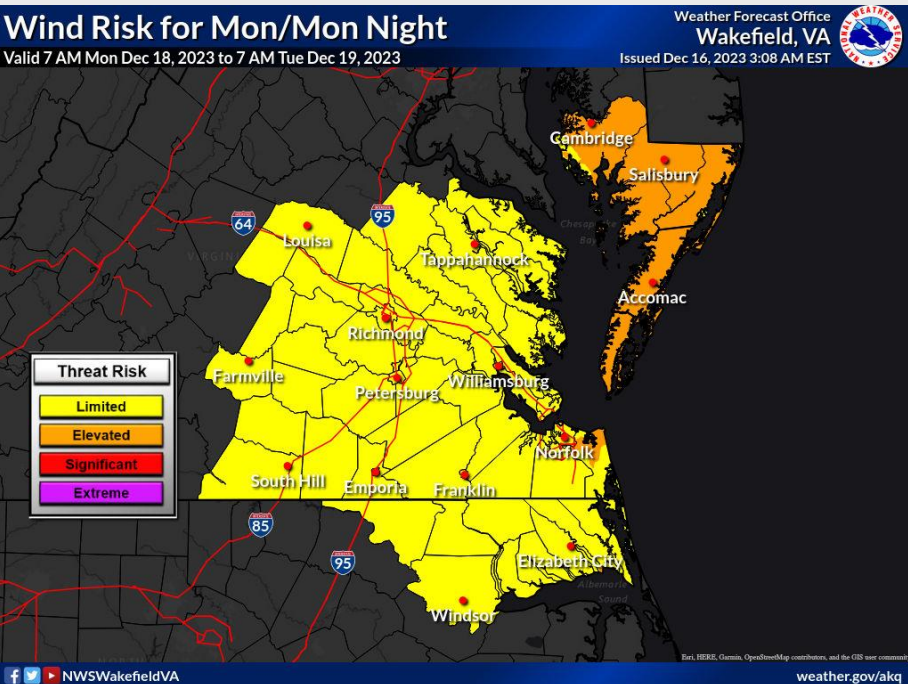
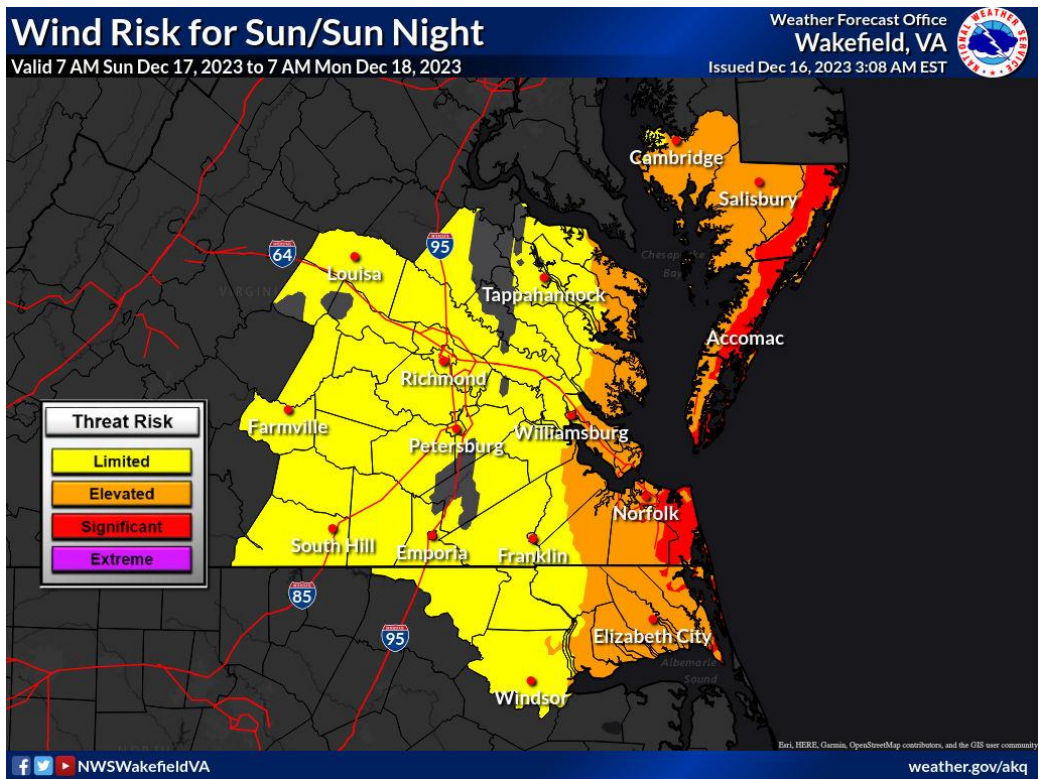
***Values are maximums over the period beginning at the time shown.





High Wind Potential - Sun to Tue

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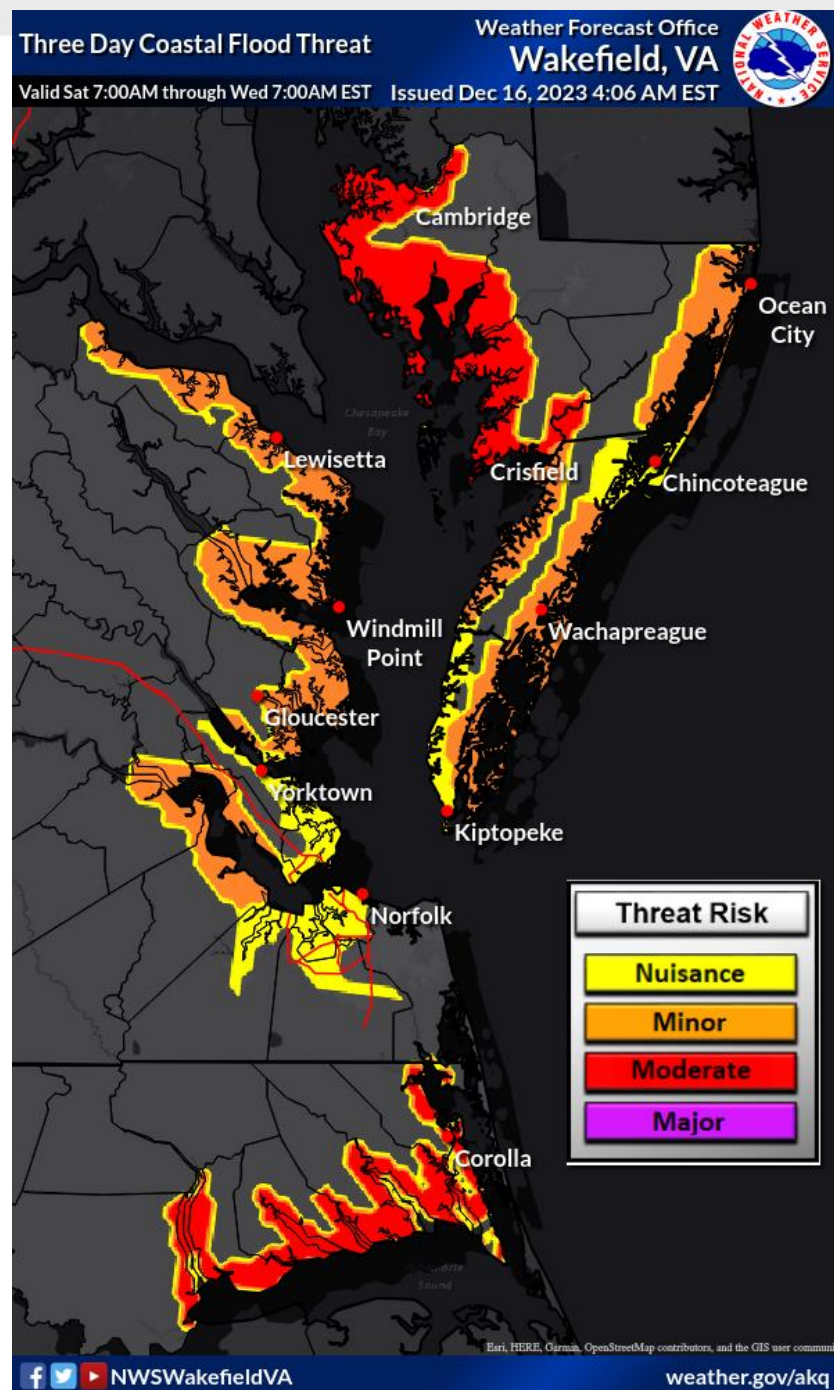
Limited	Breezy conditions with 30 to 40 mph wind gusts could blow around unsecured items and result in hazardous driving conditions for high-profile vehicles.
Elevated	Windy conditions with 40 to 50 mph wind gusts could damage light outdoor items, cause isolated power outages and result in hazardous 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.





Tidal Flooding Overview

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- Nuisance to minor tidal flooding is possible in most areas during the high tide cycles Sunday evening and again Monday morning.
- Moderate tidal flooding (inundation of 1-2 ft AGL in vulnerable areas) is possible during the Monday morning high tide cycle in the red highlighted area from Lewisetta, VA-Cambridge, MD).
- Minor to moderate tidal flooding is also possible on the north side of the Albemarle Sound.

[Coastal Flood Webpage](#)



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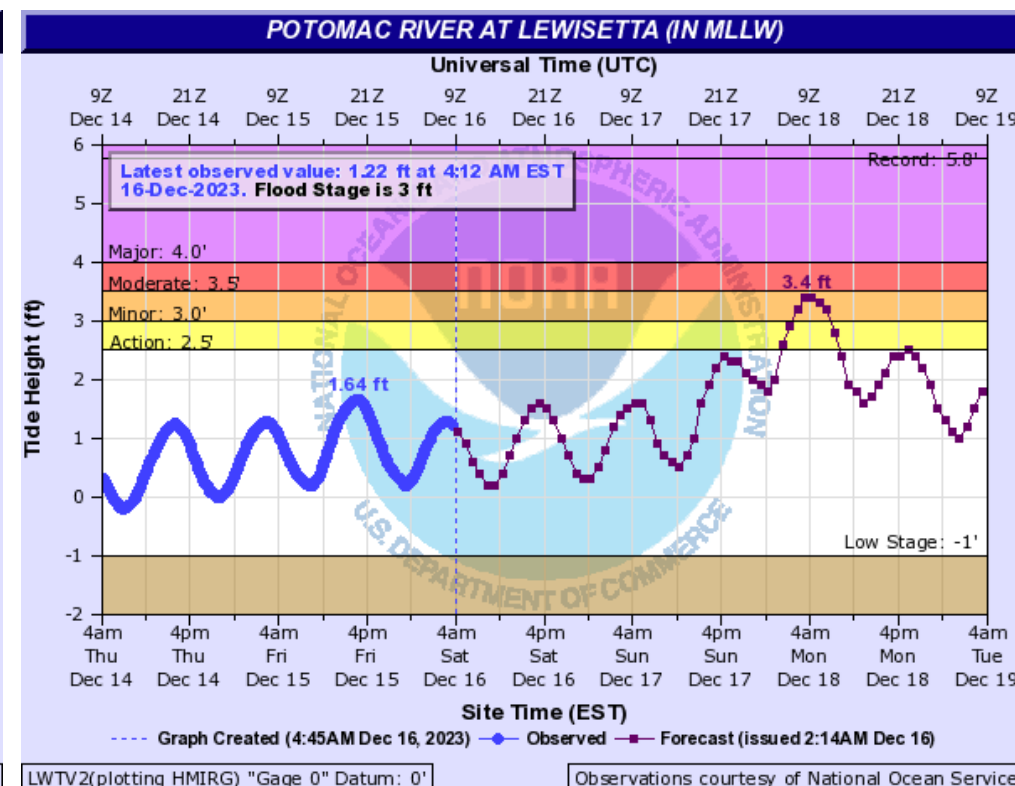
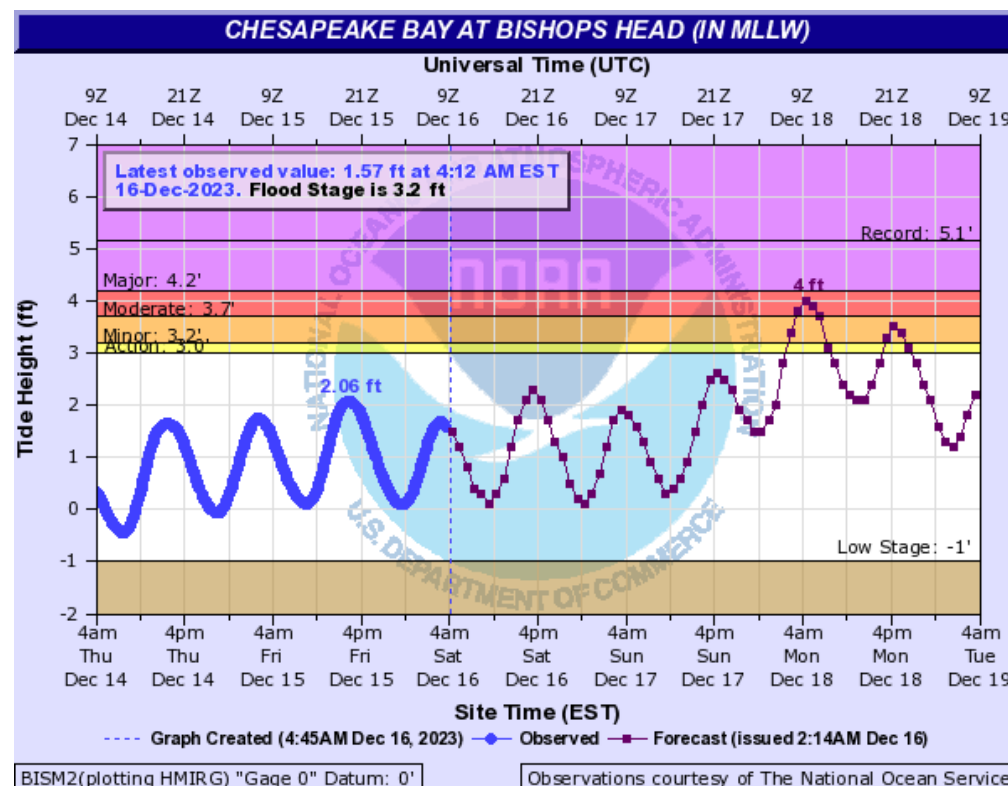
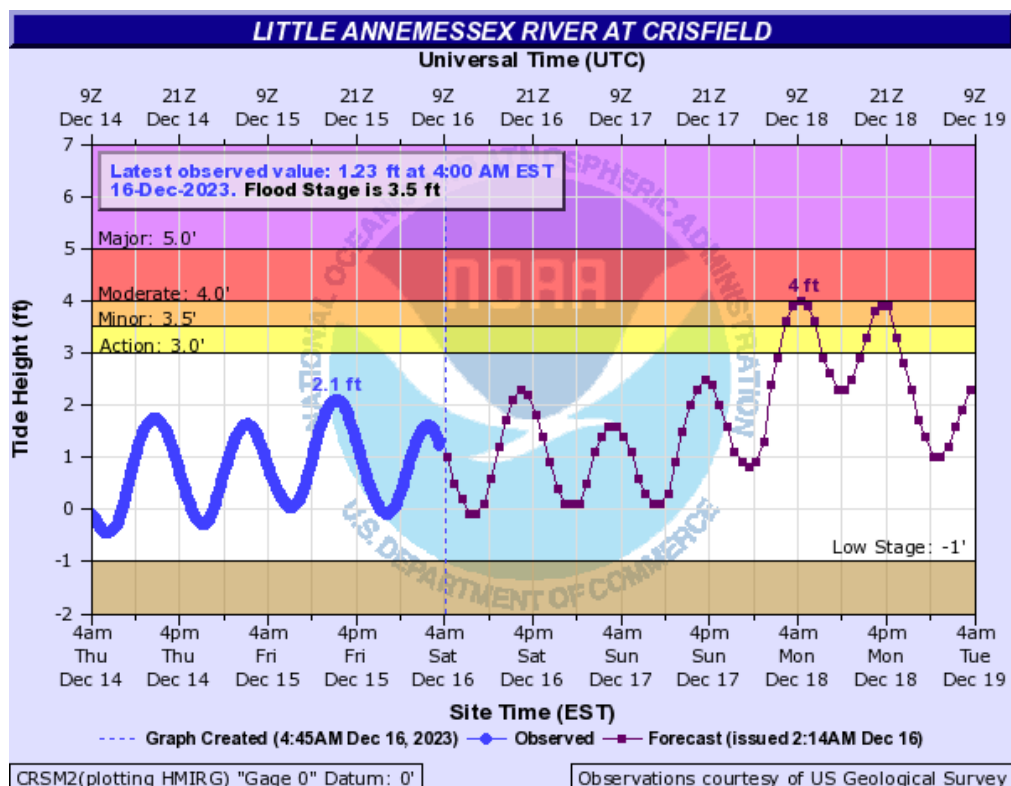
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Tidal Overview - Upper Bay

December 16, 2023
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Note: All forecasts reference Mean Lower Low Water (MLLW).



Summary of Tidal Trends

- Minor to moderate tidal flooding is possible early-mid Monday morning. This corresponds to inundation of 1-2 feet above ground level in vulnerable areas.
- Widespread flooding of vulnerable areas may result in an elevated threat of property damage.

[Coastal Flood Webpage](#)

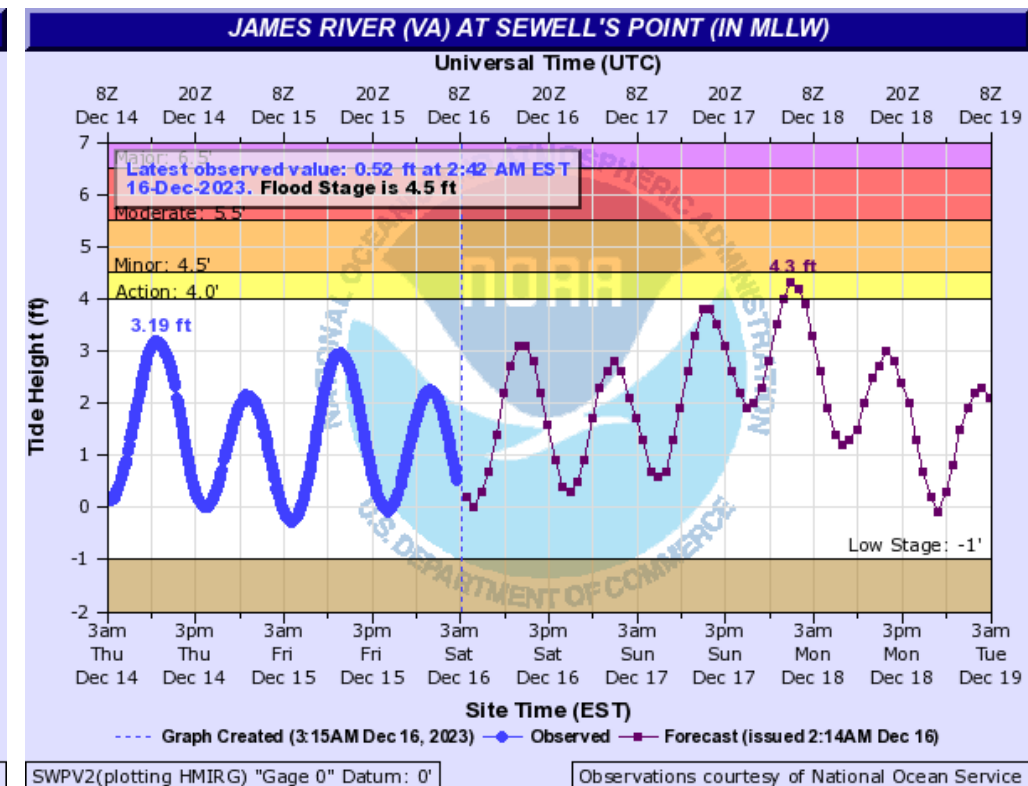
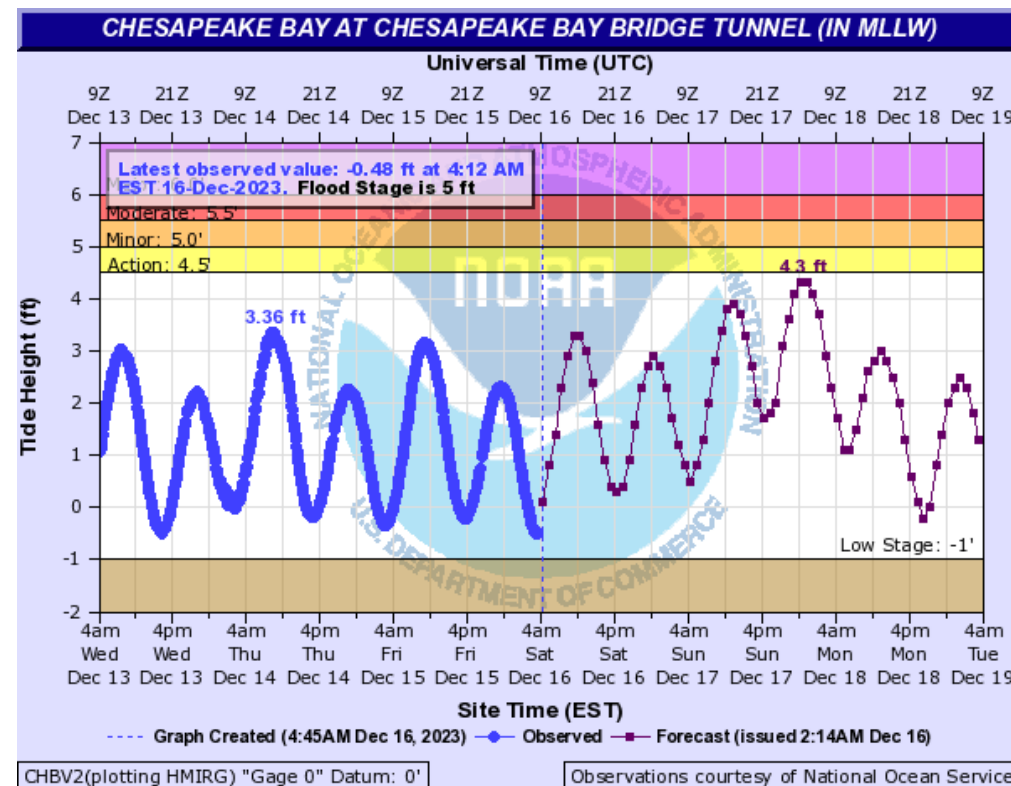
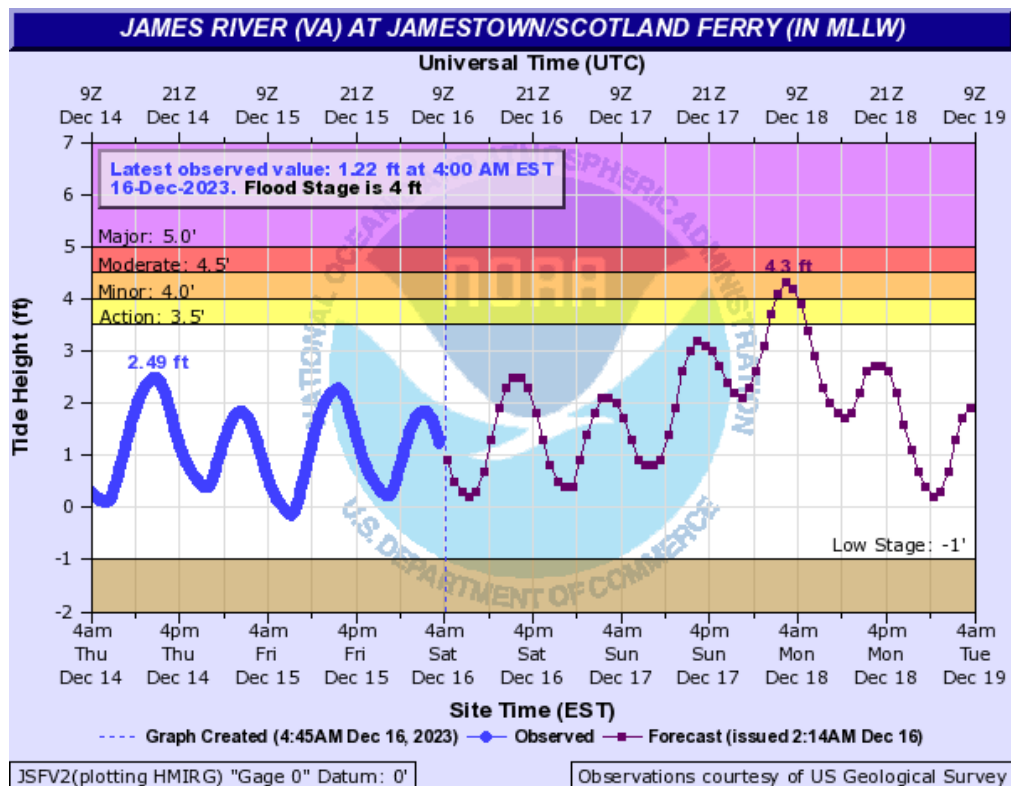




Tidal Overview - Lower Bay/James

December 16, 2023
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Note: All forecasts reference Mean Lower Low Water (MLLW).



Summary of Tidal Trends

- Nuisance to minor tidal flooding is possible Sunday evening and again early Monday morning. This corresponds to inundation of up to 1 foot above ground level in vulnerable areas.
- Shallow flooding in the most vulnerable locations near the waterfront and shoreline resulting in a low threat of property damage.

[Coastal Flood Webpage](#)



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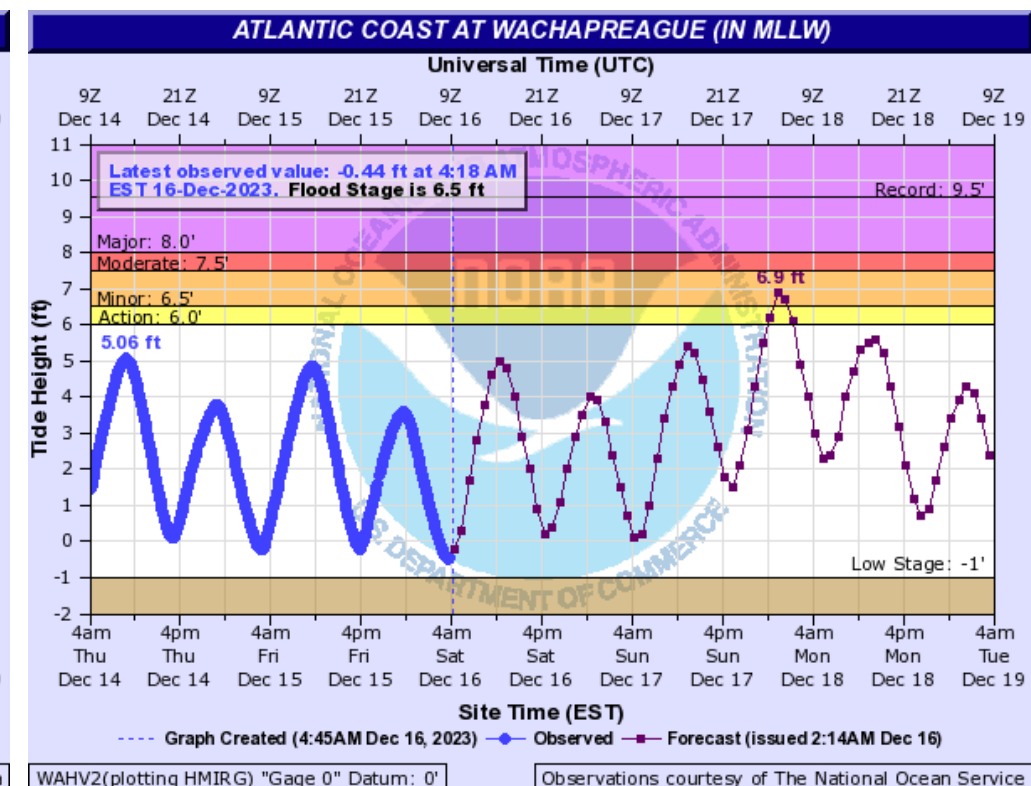
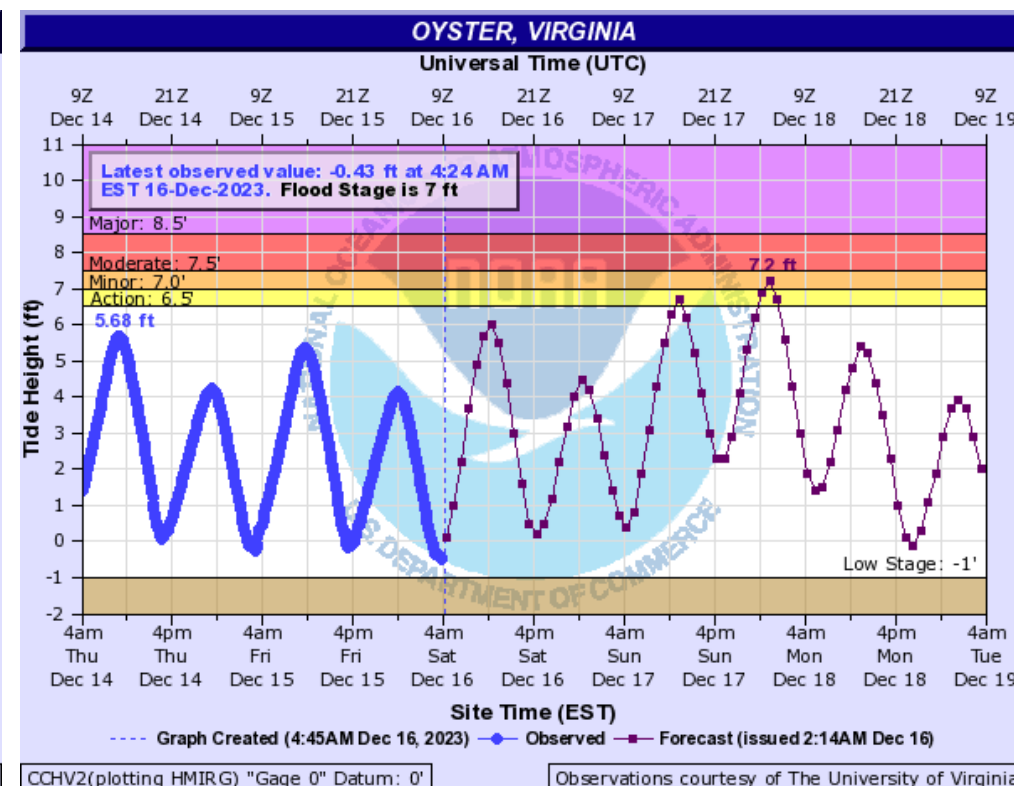
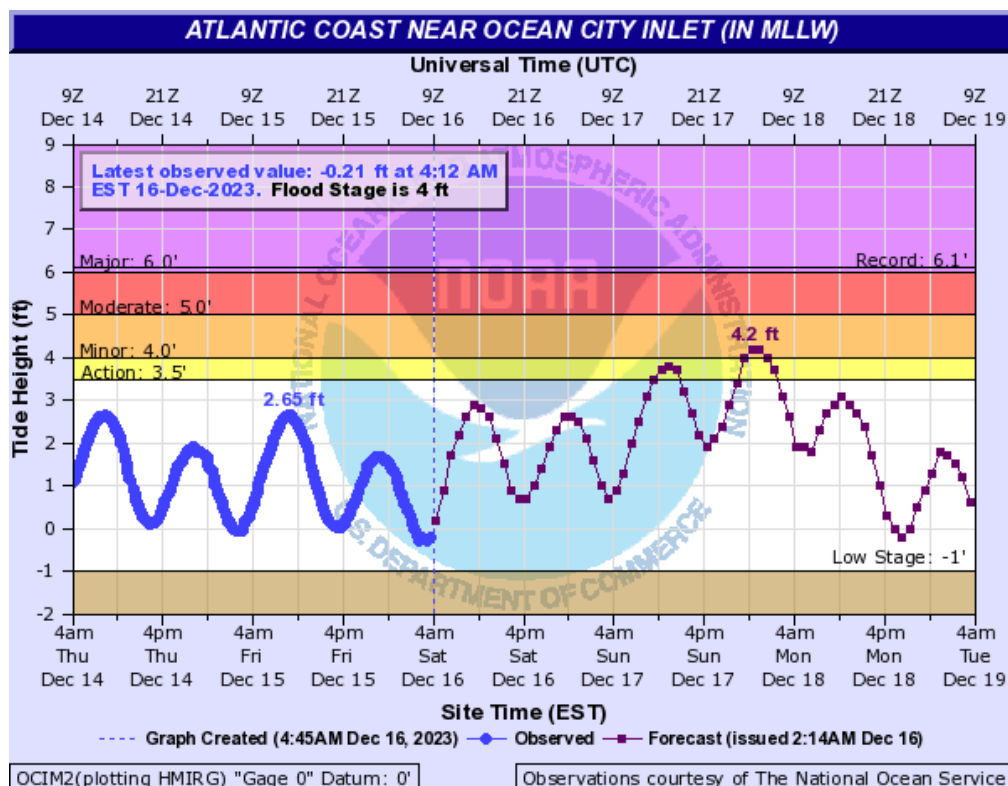
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Wakefield, VA



Tidal Overview - Ocean

December 16, 2023
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Note: All forecasts reference Mean Lower Low Water (MLLW).



Summary of Tidal Trends

- Nuisance to minor tidal flooding is possible Sunday evening and again early Monday morning. This corresponds to inundation of up to 1 foot above ground level in vulnerable areas.
- Shallow flooding in the most vulnerable locations near the waterfront and shoreline resulting in a low threat of property damage.

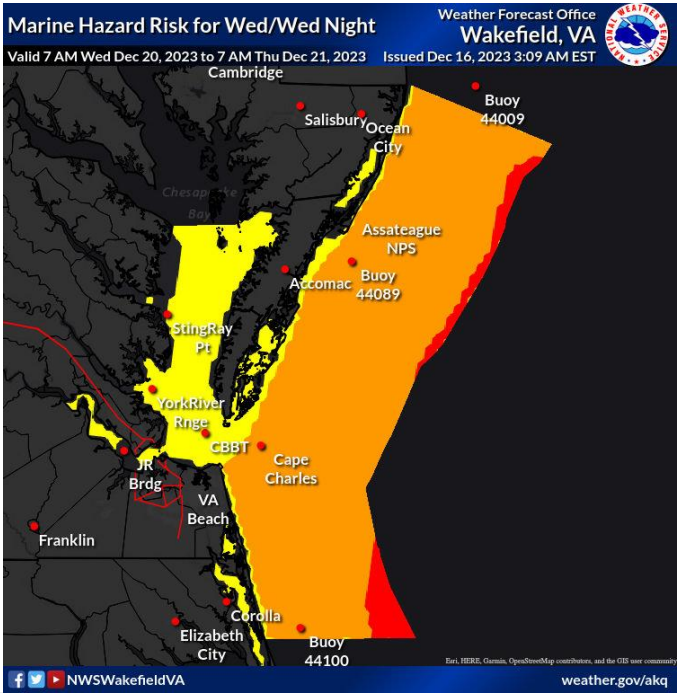
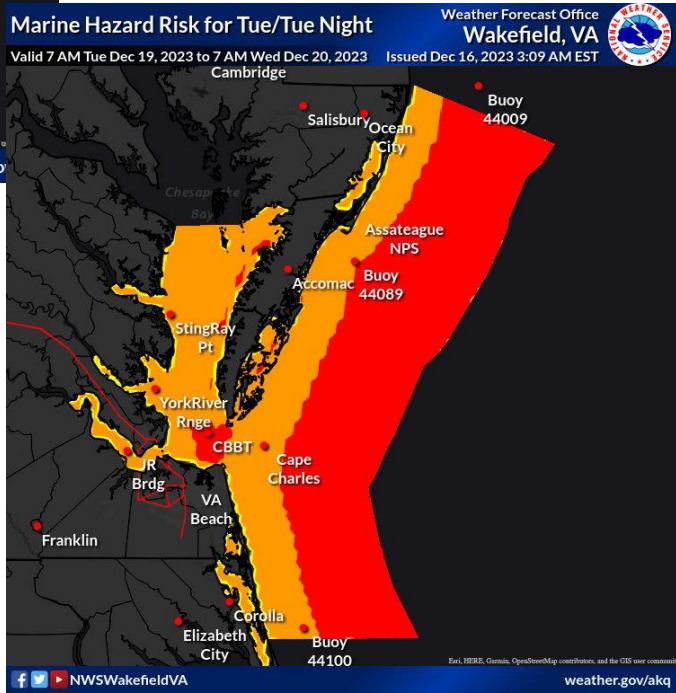
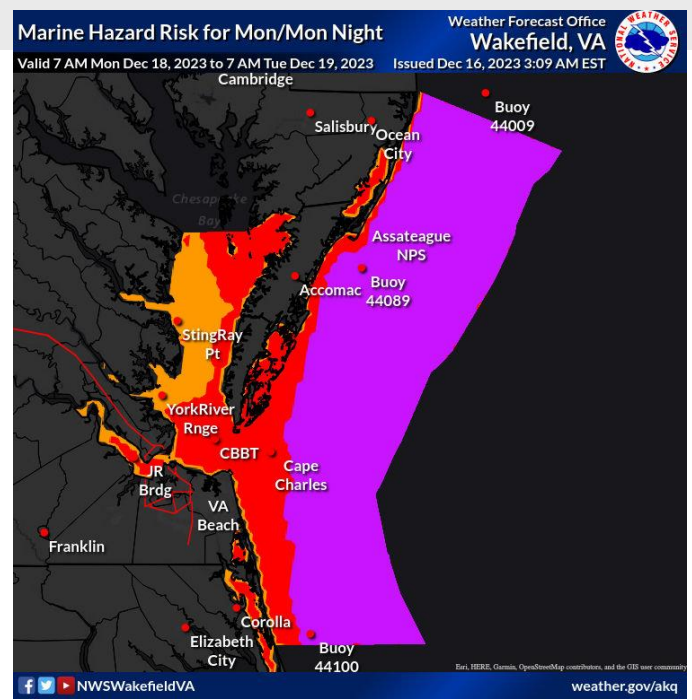
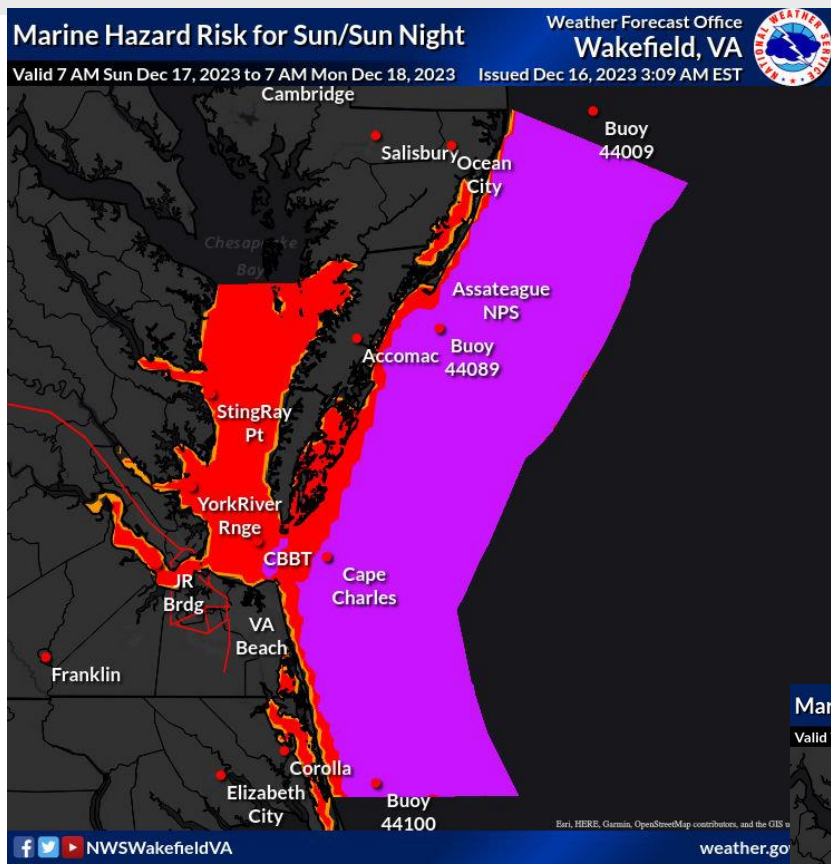
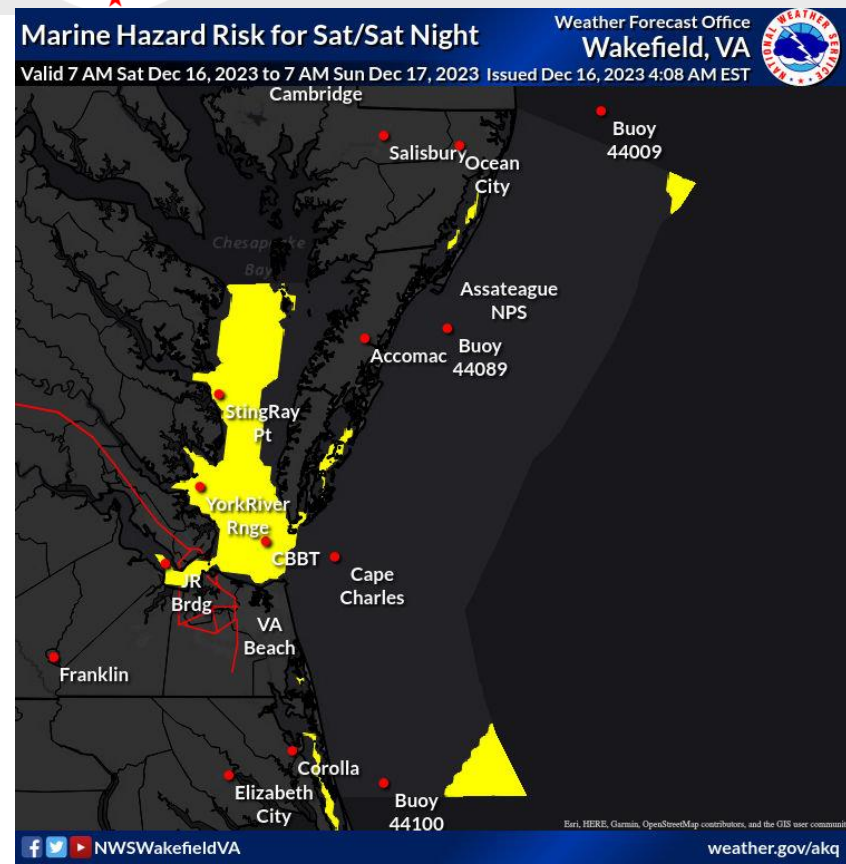
[Coastal Flood Webpage](#)





Marine Threat Potential - Next 5 Days

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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).





Regional Marine Forecasts (wind in kt)

December 16, 2023
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Maximum Wind Gust Forecast

	12/17 Sun				12/18 Mon				12/19 Tue			
	12am	6am	12pm	6pm	12am	6am	12pm	6pm	12am	6am	12pm	6pm
	12am	6am	12pm	6pm	12am	6am	12pm	6pm	12am	6am	12pm	6pm
CBBT	15	21	34	45	43	35	31	26	31	33	26	24
Cape Henry	16	23	35	45	44	35	31	26	31	33	26	25
Chesapeake Light	15	22	34	46	46	36	33	28	33	33	29	28
Chincoteague Shoal	15	17	27	42	44	35	34	25	30	32	29	27
Duck, NC	15	23	36	46	44	35	29	24	28	28	25	22
Fenwick Shoal	15	19	28	42	45	35	37	25	28	31	31	28
HRBT	16	20	32	42	39	34	30	24	27	28	25	22
JRB	15	19	31	39	38	35	30	26	27	28	26	20
New Point Comfort	14	19	29	42	42	33	30	25	27	29	26	22
Parramore Banks	14	18	28	43	45	36	33	26	31	33	30	27
Rappahannock Light	13	16	26	40	40	33	29	25	29	30	28	24
Tangier	14	17	26	40	40	34	32	27	32	33	29	27
Thimble Shoal	15	21	33	44	41	35	31	26	30	31	25	23

*Table values in kt
**Created: 8 am EST Sat 12/16/2023
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Wave Height Forecast

	12/17 Sun				12/18 Mon				12/19 Tue			
	12am	6am	12pm	6pm	12am	6am	12pm	6pm	12am	6am	12pm	6pm
	12am	6am	12pm	6pm	12am	6am	12pm	6pm	12am	6am	12pm	6pm
CBBT	3.0	4.0	6.0	7.0	7.0	6.0	5.0	5.0	5.0	5.0	4.0	4.0
Cape Henry	2.0	3.0	8.0	11.0	11.0	10.0	9.0	7.0	7.0	6.0	6.0	6.0
Chesapeake Light	3.0	4.0	9.0	15.0	16.0	13.0	11.0	9.0	9.0	8.0	8.0	7.0
Chincoteague Shoal	3.0	3.0	6.0	13.0	14.0	13.0	12.0	10.0	8.0	7.0	6.0	6.0
Duck, NC	3.0	4.0	9.0	12.0	12.0	10.0	9.0	7.0	7.0	6.0	6.0	6.0
Fenwick Shoal	2.0	3.0	5.0	12.0	16.0	16.0	14.0	12.0	10.0	8.0	7.0	7.0
HRBT	2.0	3.0	4.0	4.0	4.0	3.0	2.0	2.0	2.0	2.0	2.0	2.0
JRB	1.0	2.0	2.0	3.0	3.0	3.0	2.0	2.0	2.0	2.0	2.0	2.0
New Point Comfort	2.0	3.0	3.0	6.0	6.0	3.0	3.0	2.0	3.0	3.0	2.0	2.0
Parramore Banks	3.0	4.0	7.0	12.0	13.0	12.0	11.0	9.0	8.0	7.0	6.0	6.0
Rappahannock Light	2.0	2.0	3.0	5.0	5.0	4.0	4.0	3.0	4.0	4.0	4.0	3.0
Tangier	2.0	2.0	2.0	4.0	4.0	4.0	4.0	3.0	4.0	4.0	4.0	3.0
Thimble Shoal	2.0	3.0	5.0	6.0	6.0	5.0	4.0	4.0	5.0	5.0	4.0	3.0

*Table values in feet
**Created: 8 am EST Sat 12/16/2023
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Peak wind gusts will likely reach 50 kt Sunday evening into early Monday morning





Key Messages

December 16, 2023
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- Moderate to heavy rain is expected Sunday through Monday morning with a widespread 2-3" (locally higher) of accumulation expected. This may lead to localized flooding, especially in urban areas.
- Strong southeast winds expected Sunday afternoon through Monday. Strongest wind gusts will be Sunday evening with 45-55 mph gusts expected near the coast and 25-40 mph gusts expected inland. Wind advisories have been issued in areas along the coast (and may need to be expanded inland). Localized power outages possible.
- Potential for moderate coastal flooding in the middle/upper Chesapeake Bay and nuisance to minor flooding elsewhere. Highest tide would be Monday morning.
- Marine: Gale Warnings are in effect across all marine zones Sunday afternoon into early Monday afternoon. Strong southeast winds will gust 40-50 kt Sunday evening-Sunday night. Winds become west on Monday with 35-40 kt gusts expected. Seas build to 12-18 ft.





Contact and Next Briefing Information

December 16, 2023
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For NWS Wakefield, Virginia



Briefing Webpage

→ [NWS Wakefield Briefing](#)



Next Briefing

- By 5:30 PM EST, Saturday, December 16
- Method: Email



Disclaimer

- Information contained in this briefing is time-sensitive
- See www.weather.gov/akq for the latest information



Contact Information

Web

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