



Weekend Storm Briefing

December 17, 2023
8:53 AM

Prepared by National Weather Service Wakefield, VA

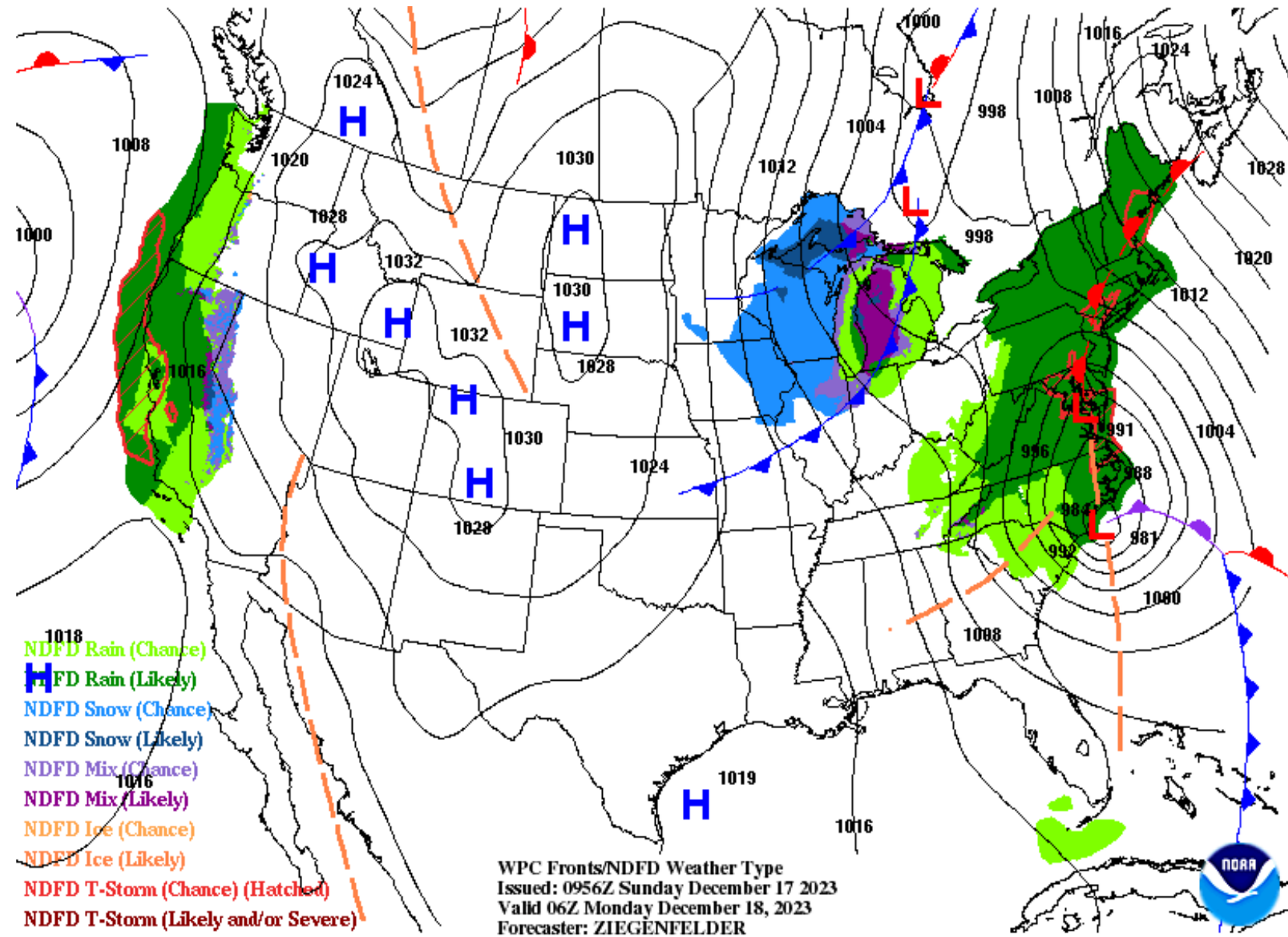
Decision Support Briefing #4

→ As of 9:00 AM EST
Sunday, December 17, 2023

NEW

Important Updates

- Coastal Flood Warnings in effect for the north side of the Albemarle Sound and bay side of the Lower Maryland Eastern Shore with Coastal Flood Advisories for the rest of the coastline.
- Wind Advisories are now in effect from Elizabeth City eastward in NE NC and up the coast.



Disclaimer: Information may become outdated after briefing time.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



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Key Messages

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- Moderate to heavy rain is expected later today through Monday morning with a widespread 2-4" (locally higher) expected. This may lead to localized flooding, especially in urban areas and areas with poor drainage.
- Strong southeast winds expected this afternoon through Monday. Strongest wind gusts will be this evening with 45-55 mph gusts expected near the coast and 25-40 mph gusts expected inland. Wind advisories remain in effect for areas near the bay/coast. Localized power outages are possible.
- Potential for moderate coastal flooding in the middle/upper Chesapeake Bay as well as the north side of the Albemarle Sound and nuisance to minor flooding elsewhere. Highest tide would be Monday morning (water levels likely peak tonight from Edenton-Elizabeth City).
- Marine: Gale Warnings are in effect across all marine zones this afternoon into early Monday afternoon. Strong southeast winds will gust 40-50 kt this evening-tonight. Winds become west on Monday with 35-40 kt gusts expected. Seas build to 12-18 ft.





Summary of Greatest Impacts

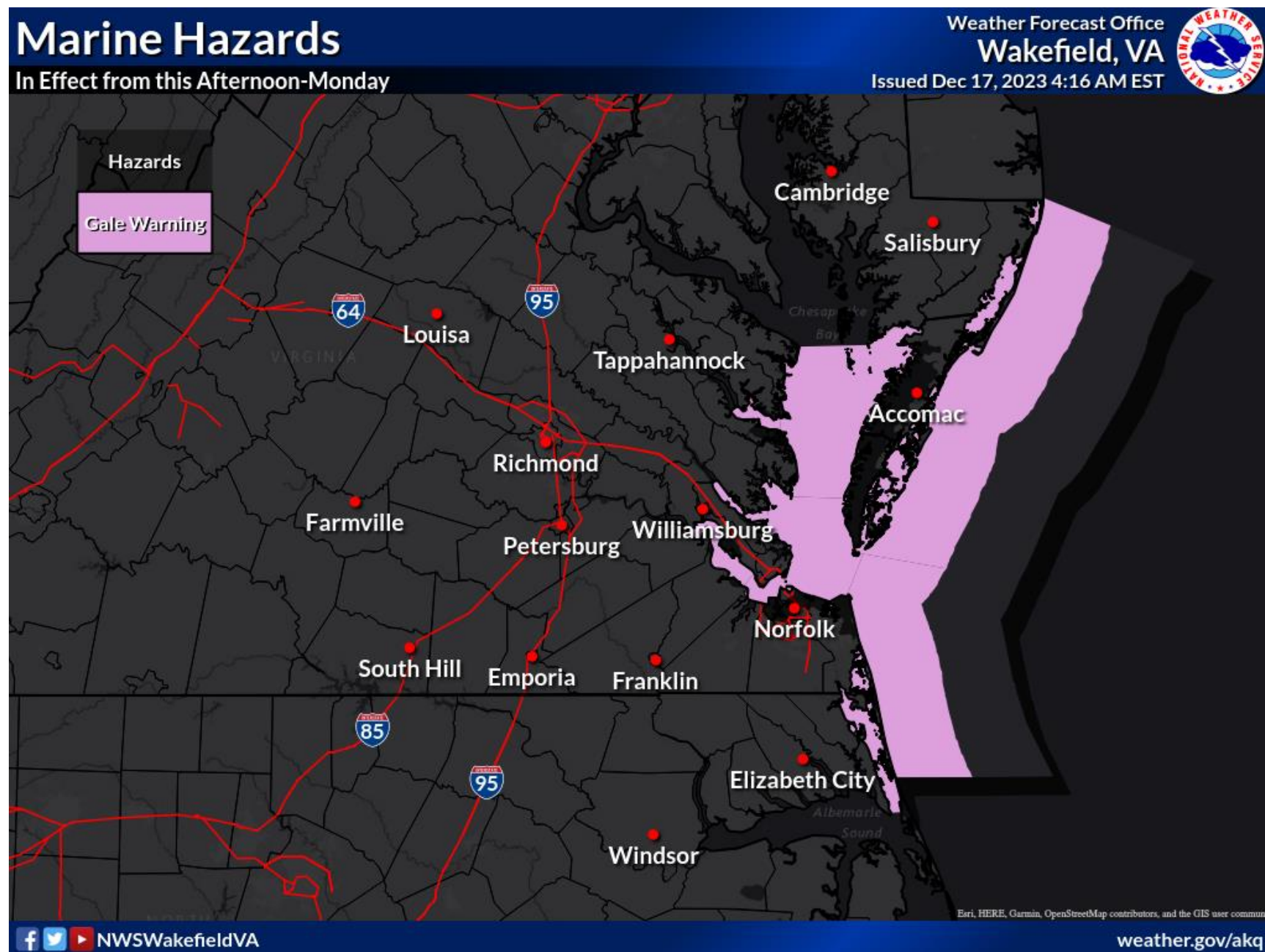
December 17, 2023
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Hazard	Impacts	Location	Timing
 Heavy Rain	Rainfall of 2-4" (locally higher) may lead to localized flooding, especially in urban areas	Entire forecast area	Later today through Monday morning
 High Wind	Gusts of 45 to 55 mph may result in localized power outages	Near/along the coast	This afternoon into Monday morning. Highest this 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	This 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 (Lewissetta, VA - Cambridge, MD) North side of the Albemarle Sound. Atlantic coast for beach erosion.	Tonight through Monday morning
 Marine	Strong SE winds with gusts of 40-50 kt and seas 12-18 ft	All waters coastal and nearshore waters	This afternoon into Monday morning. Highest winds this evening.



Marine Wind Hazard Overview

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- Gale Warnings remain in effect for all marine zones.
- Expect SE winds to gust to 40-50 kt this evening-tonight. Winds become W on Monday, with gusts of 35-40 kt expected.
- See www.weather.gov/akq for the latest information



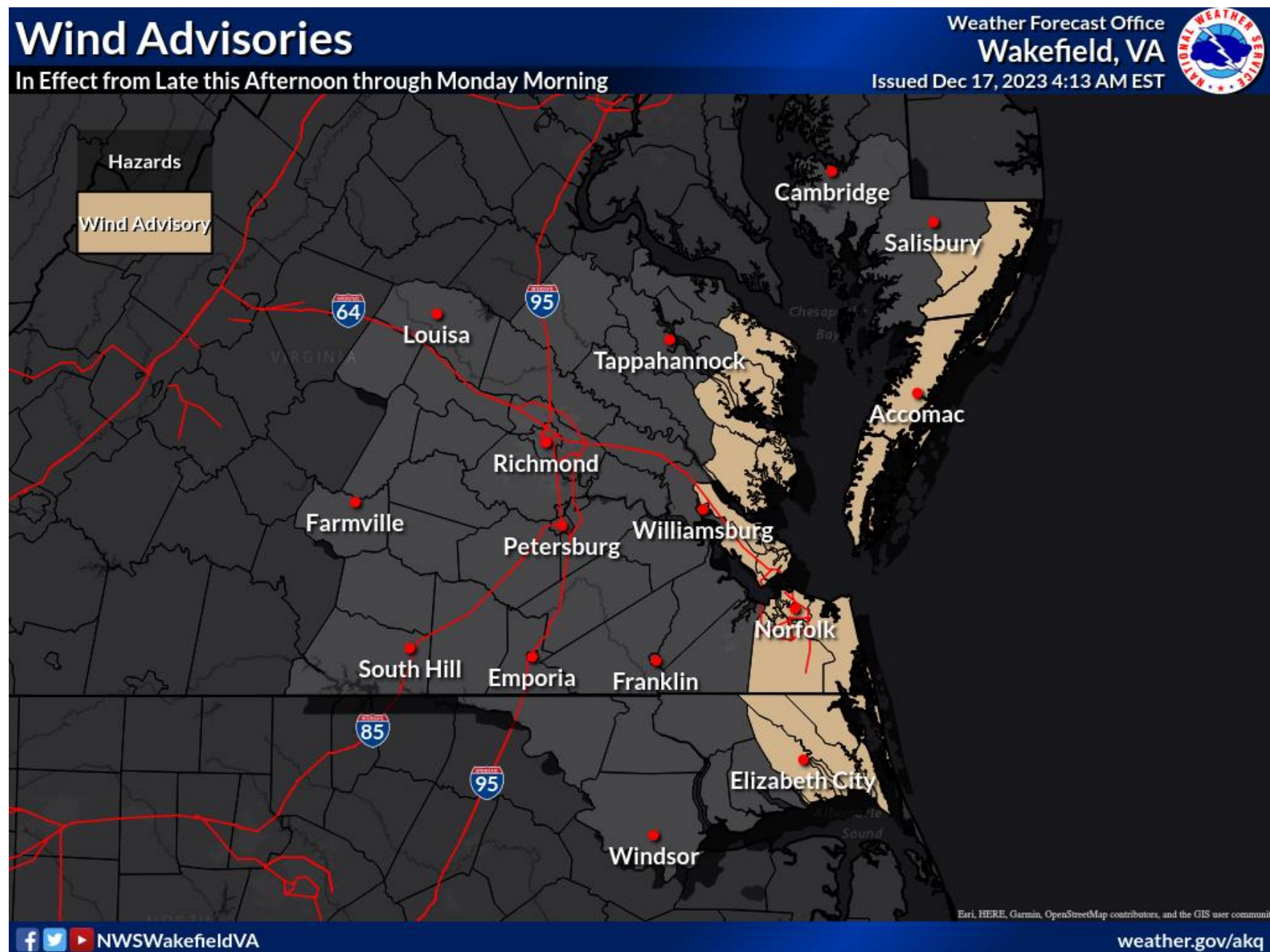
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Land Wind Hazard Overview

December 17, 2023
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- Wind Advisories remain in effect for areas near the bay/coast.
- SE winds will gust to 45-55 mph in the advisory area.
- See www.weather.gov/akq for the latest information



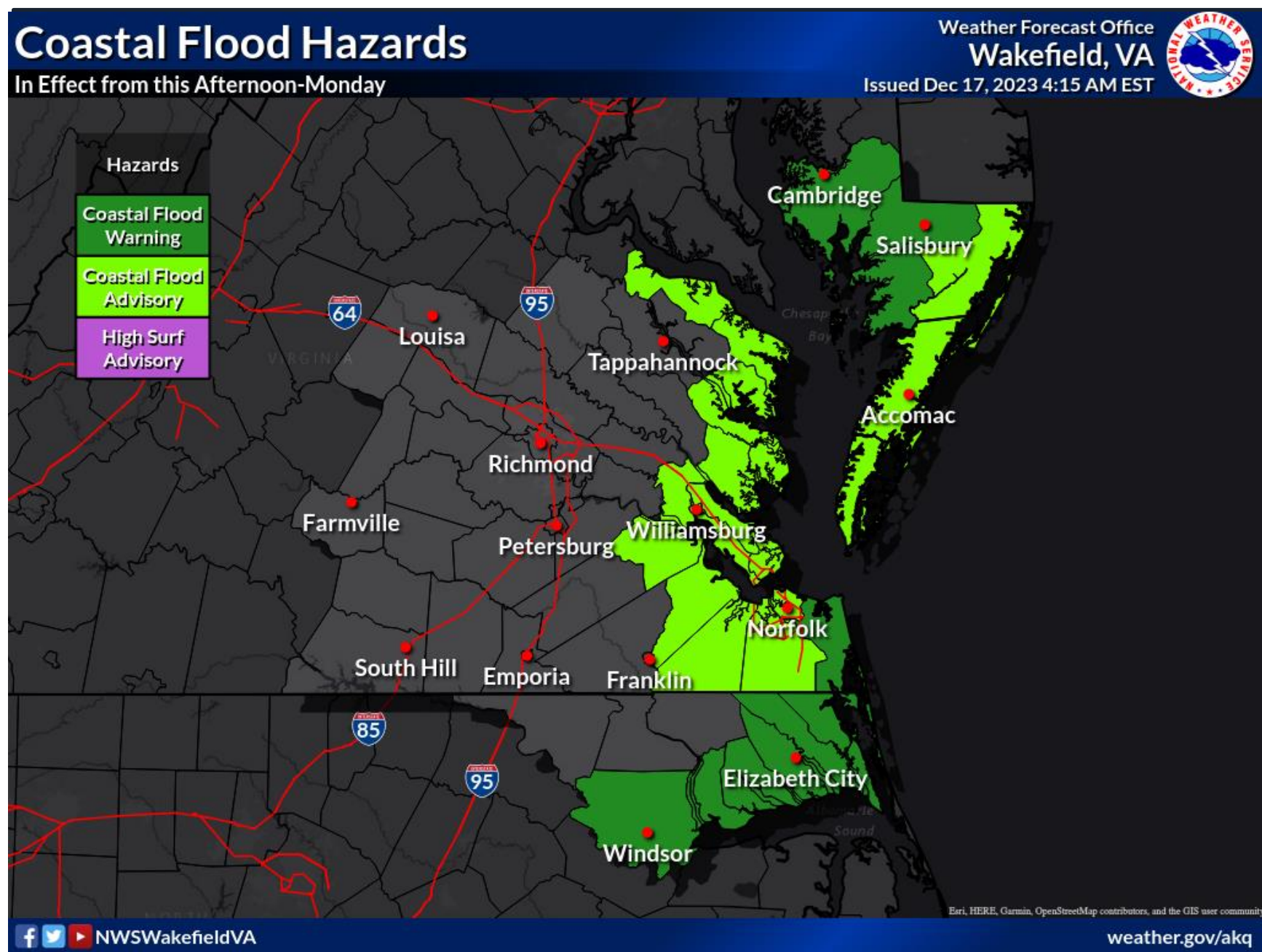
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Coastal Flood Hazard Overview

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- Coastal Flood Warnings have been issued for areas along the Albemarle Sound and bay side of the MD Eastern Shore. High Surf Advisories are in effect along the Atlantic coast.
- Coastal Flood Advisories are in effect for the remaining coastal areas.
- Up to 2 feet of inundation above ground level is possible in flood prone areas.
- See www.weather.gov/akq for the latest information



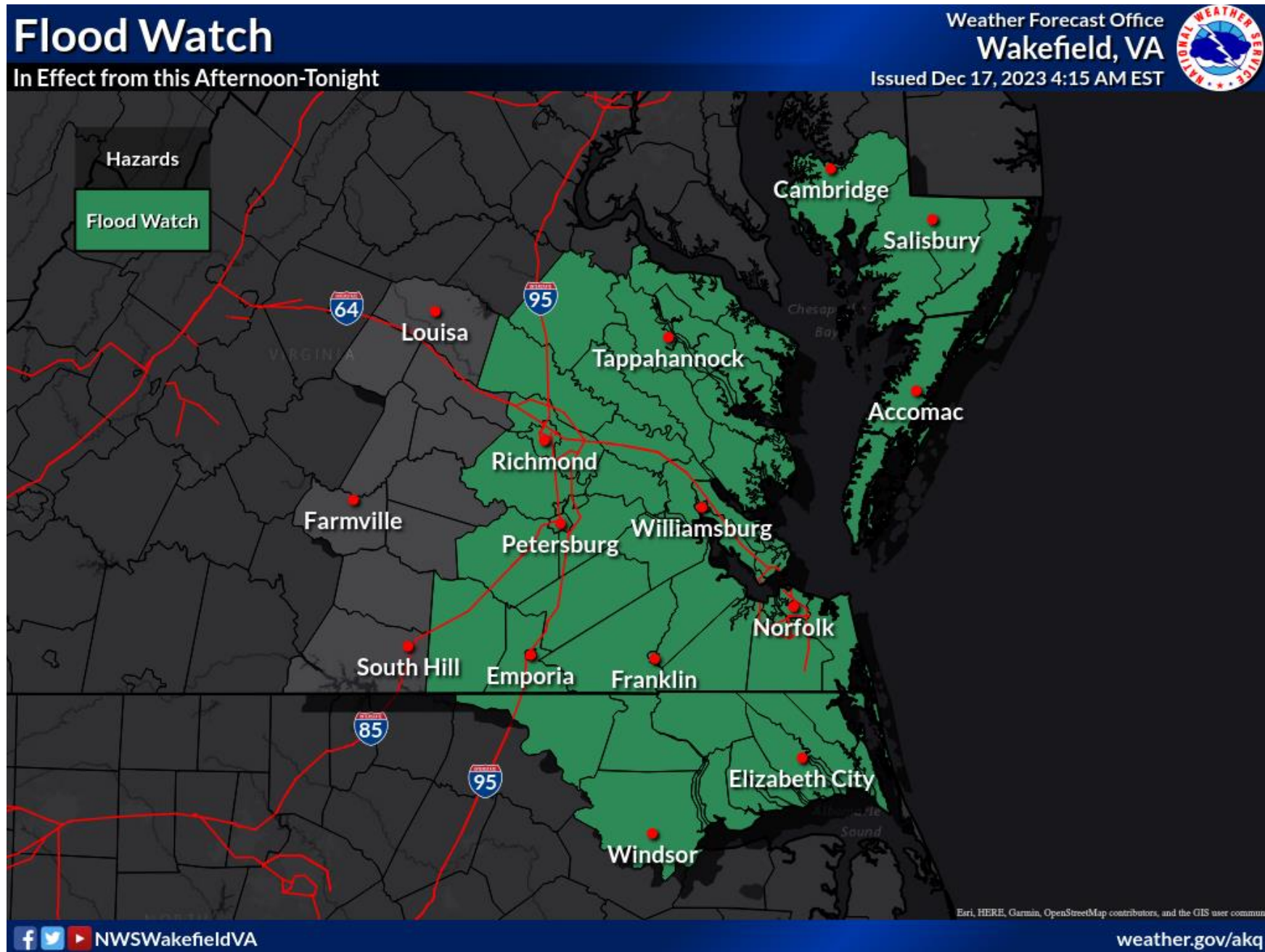
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Flood Watch

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- Widespread 2 to 4 inches of rain is expected with locally higher amounts possible.
- Rain will move in today and continue into Monday morning. Heaviest rain will likely be this evening-tonight.
- Periods of heavy rain may limit visibility, especially combined with 30-40 mph wind gusts. Heavy rain may also lead to localized flooding in urban/poor drainage areas.

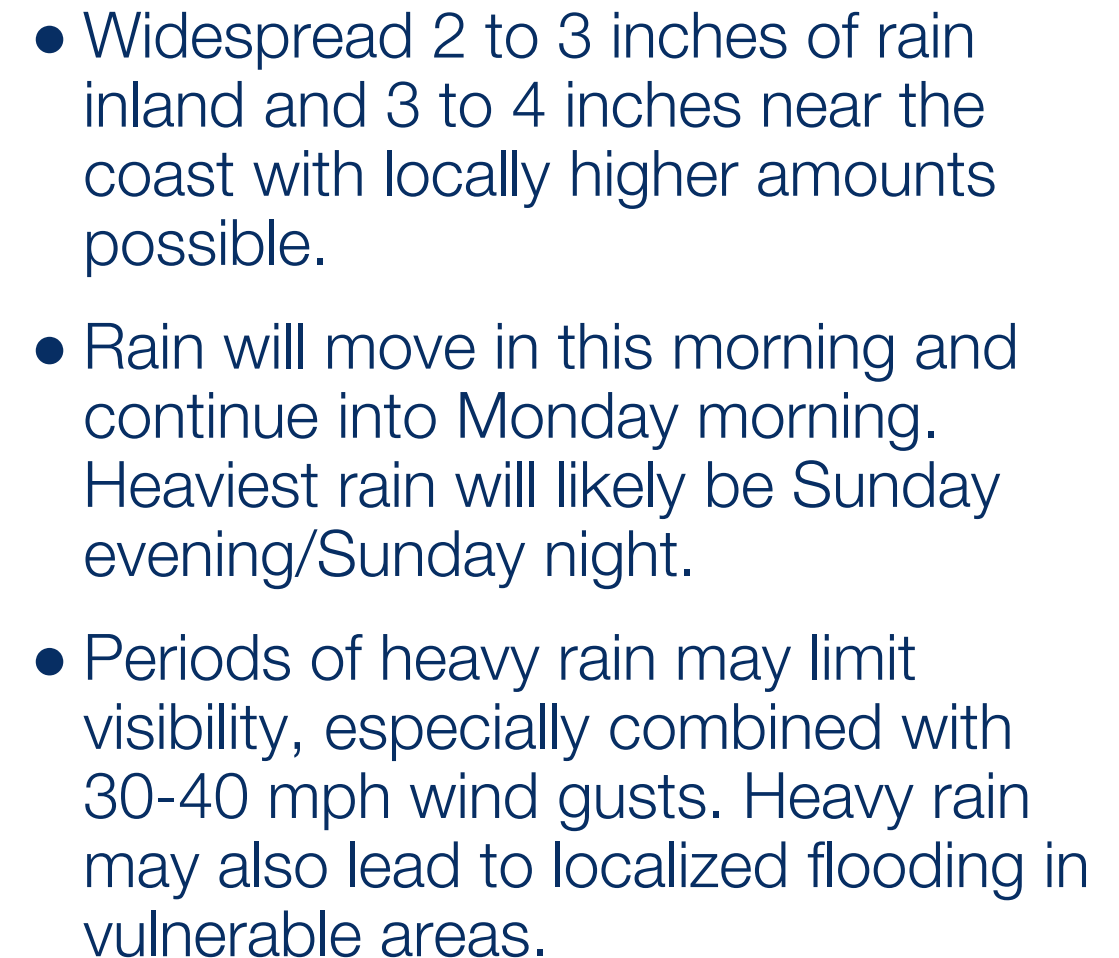


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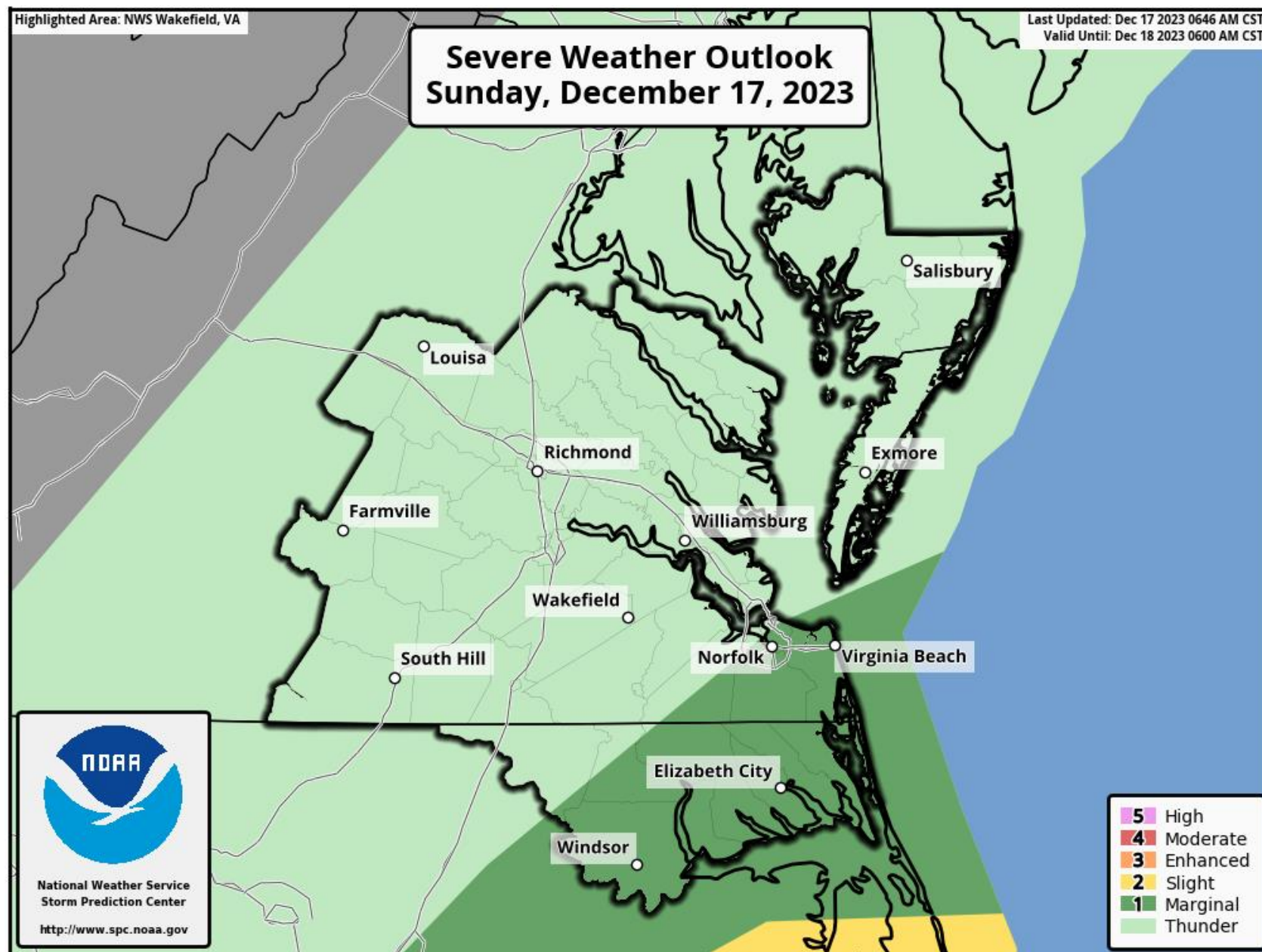
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Severe Threat - This Evening

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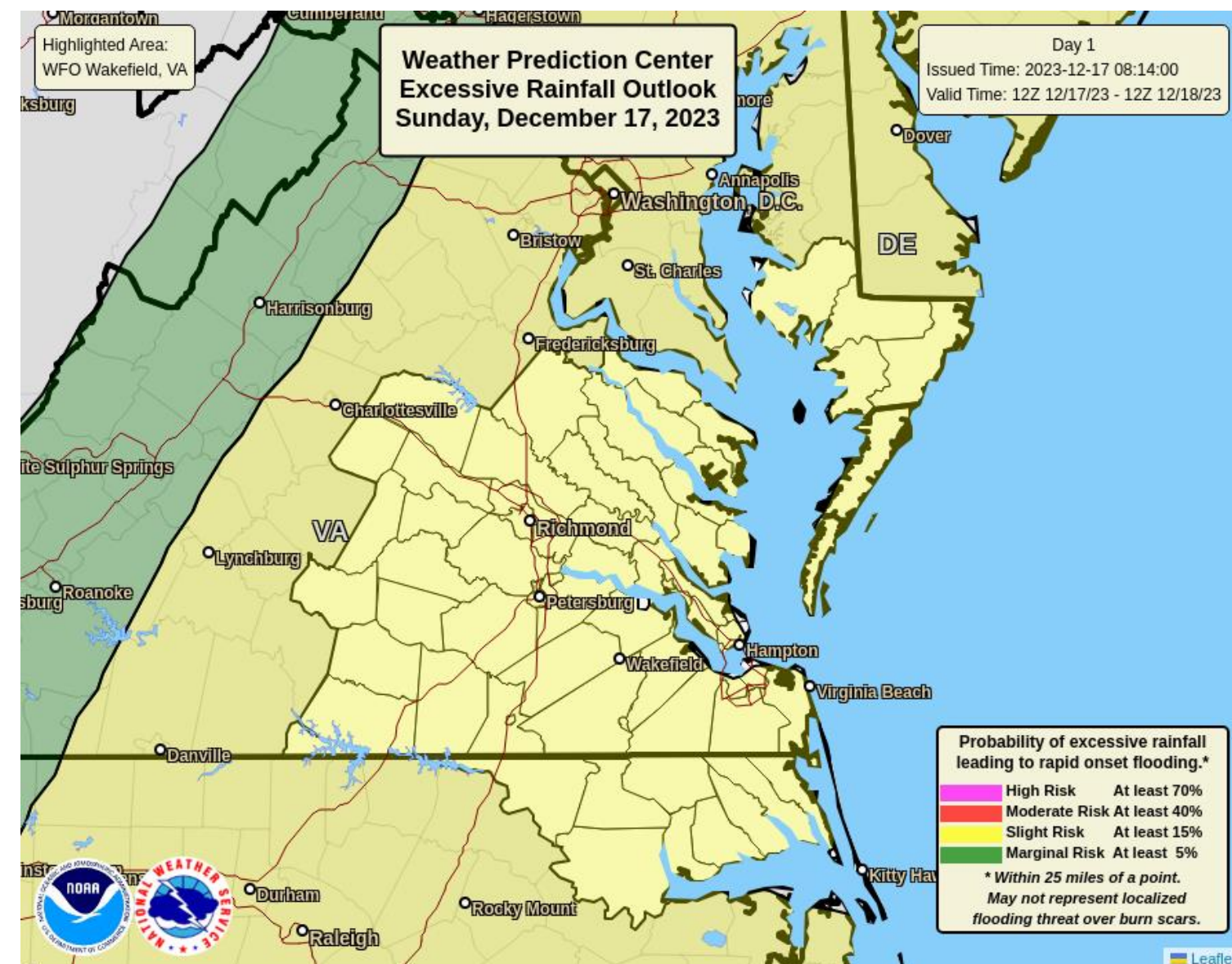
- There is a marginal risk for a few isolated severe thunderstorms across far southeast Virginia and northeast North Carolina late this evening.
- The main threat is damaging wind gusts to around 60 mph. However, cannot rule out an isolated tornado.





Flood Threat - Today/Tonight

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

<u>MARGINAL</u>	<u>SLIGHT</u>	<u>MODERATE</u>	<u>HIGH</u>
Isolated flash floods possible	Scattered flash floods possible	Numerous flash floods likely	Widespread flash floods expected

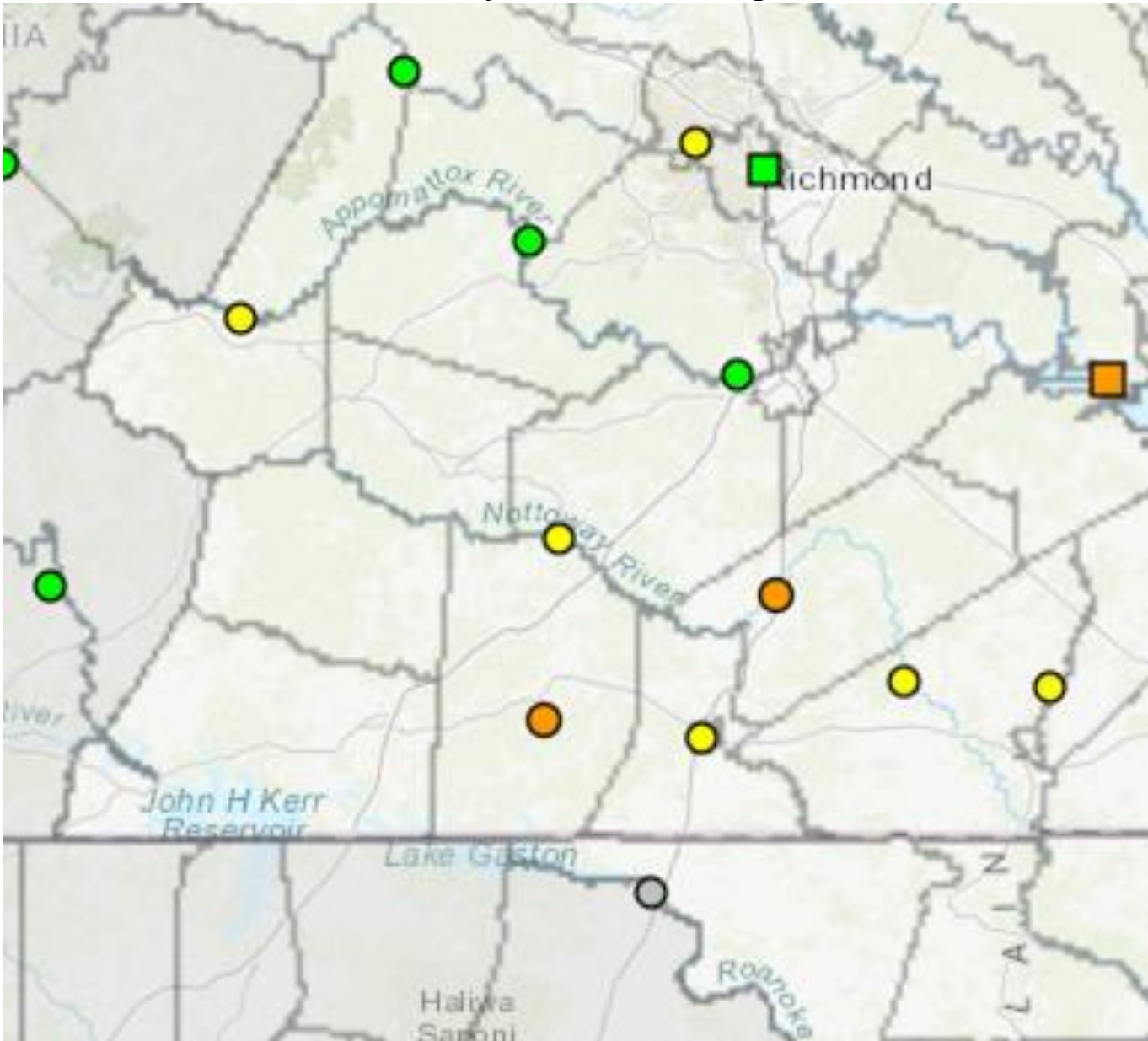




Minor River Flooding Possible

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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).

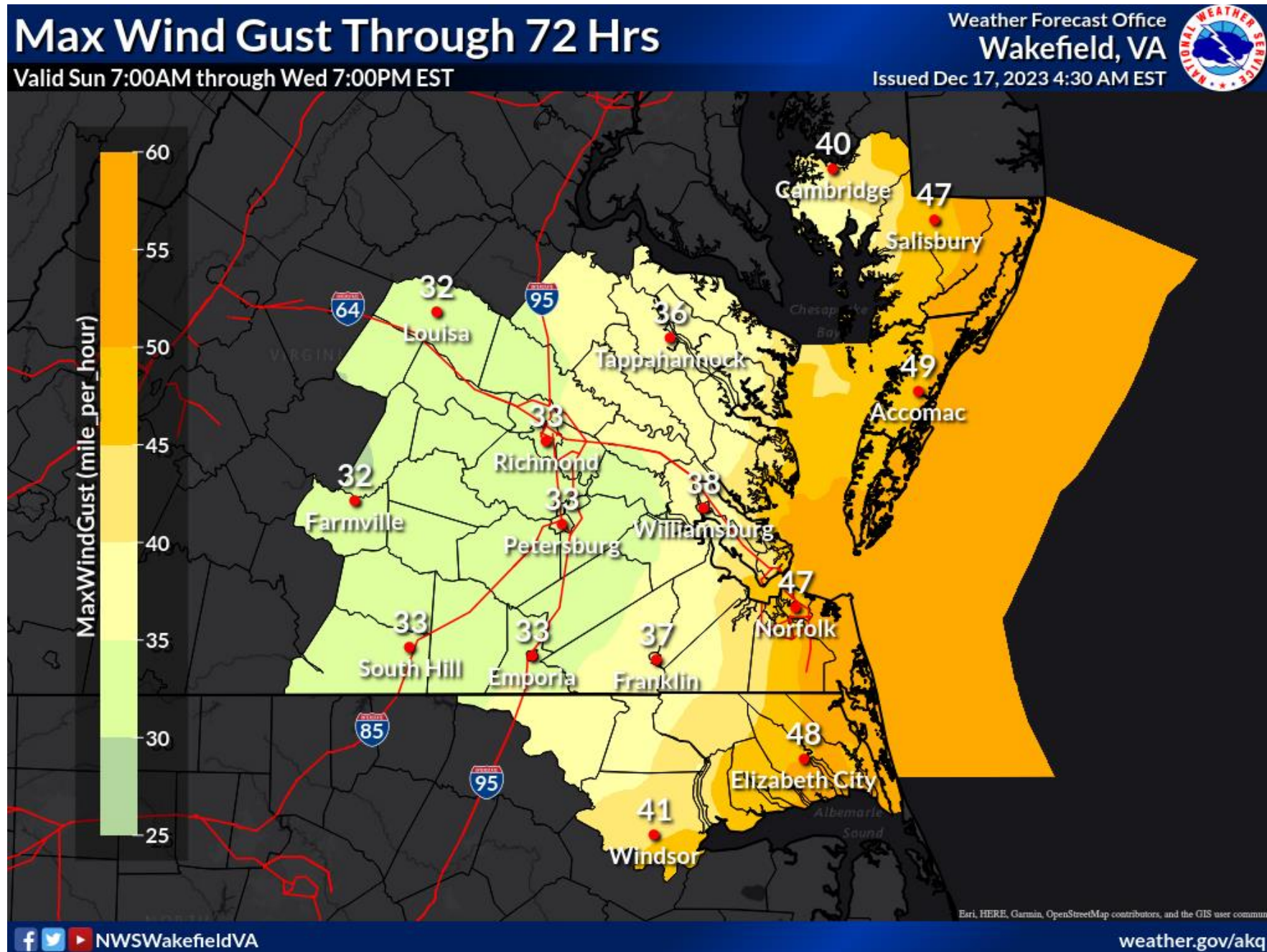
Major Flooding
Moderate Flooding
Minor Flooding
Near Flood Stage
No Flooding
Forecasts Are Not Current
No Forecast Within Selected Timeframe
Out of Service





High Wind Potential

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





Timing of Wind and Rain (wind in mph)

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	Wind Gust Forecast														Maximum
	12/17 Sun						12/18 Mon								
	6am	9am	12pm	3pm	6pm	9pm	12am	3am	6am	9am	12pm	3pm	6pm		
Accomac	12↙	16↙	22↙	22↙	29↙	41↙	46↘	33↘	28↘	36↘	40↘	29↘	18↘	46	
Ahoski	7↙	15↙	21↙	25↙	33↙	35↘	24↗	21↗	28↗	33↗	31↗	24↗	16↗	35	
Bowling Green	3↙	7↙	13↙	16↙	18↙	21↗	22↘	24↘	28↘	31↗	31↗	24↗	16↗	31	
Cambridge	9↙	13↙	17↙	18↙	20↙	30↙	35↘	29↘	26↘	35↘	39↘	31↘	20↘	39	
Cape Charles	15↙	18↙	23↙	26↙	36↙	45↙	44↘	30↘	31↗	38↘	37↘	29↘	22↘	45	
Corolla	17↙	22↙	29↙	35↙	45↙	51↙	45↘	36↗	33↗	37↘	35↘	29↘	22↘	51	
Deltaville	8↙	12↙	18↙	21↙	29↙	37↙	31↘	20↗	23↗	32↘	32↘	24↗	17↗	37	
Edenton	10↙	15↙	22↙	28↙	37↙	40↙	28↘	20↗	28↗	32↘	30↘	24↗	16↗	40	
Elizabeth City	12↙	17↙	25↙	31↙	41↙	46↙	37↘	25↗	29↗	35↘	33↘	26↗	18↗	46	
Emporia	7↙	12↙	16↙	21↙	28↙	24↙	21↘	22↘	28↘	31↗	30↗	24↗	17↗	31	
Farmville	7↙	9↙	13↙	15↙	21↙	18↘	22↘	28↘	25↘	25↘	30↘	25↘	21↘	30	
Hampton / Newport News	12↙	15↙	21↙	24↙	32↙	38↙	30↘	21↗	26↗	33↘	33↘	26↗	18↗	38	
Louisa	6↙	7↙	12↙	12↙	16↙	16↘	24↘	25↘	25↘	28↘	28↘	24↗	18↗	28	
Norfolk / Portsmouth	10↙	16↙	23↙	28↙	37↙	43↙	33↘	23↗	26↗	35↘	33↘	26↗	18↗	43	
Ocean City	15↙	17↙	20↙	21↙	26↙	39↙	48↘	46↘	35↗	36↘	40↘	35↗	22↗	48	
Petersburg	7↙	9↙	15↙	18↙	25↙	24↙	21↘	24↘	28↘	31↗	30↗	24↗	18↗	31	
Richmond	7↙	9↙	15↙	18↙	24↙	22↙	22↘	25↘	30↘	31↗	30↗	24↗	18↗	31	
Salisbury	9↙	14↙	21↙	21↙	25↙	37↙	44↘	32↘	25↗	33↘	40↘	32↗	20↗	44	
South Hill	7↙	12↙	16↙	21↙	24↙	22↙	22↘	25↘	30↘	31↗	30↗	24↗	18↗	31	
Suffolk	6↙	13↙	21↙	24↙	32↙	38↙	28↘	21↗	25↗	31↘	31↘	25↗	17↗	38	
Tappahannock	6↙	9↙	14↙	16↙	21↙	28↙	23↘	17↗	23↗	31↘	30↘	23↗	15↗	31	
Virginia Beach	15↙	20↙	25↙	31↙	40↙	48↙	43↘	31↗	31↗	37↘	36↘	28↗	21↗	48	
Williamsburg	7↙	13↙	18↙	22↙	26↙	33↙	26↘	18↗	23↗	32↘	32↘	25↗	18↗	33	

*Table values in mph

**Created: 6 am EST Sun 12/17/2023

	Rain Forecast								Total
	12/17 Sun				12/18 Mon				
	7am	1pm	7pm	1am	7am	1pm	7pm		
Accomac	0.02	0.50	1.23	0.61	0.16	0	0	2.52	
Ahoski	0.28	0.94	1.15	0.51	0.04	0	0.01	2.93	
Bowling Green	0.03	0.59	1.41	0.53	0.07	0	0	2.63	
Cambridge	0.02	0.32	2.18	0.91	0.21	0	0	3.64	
Cape Charles	0.03	0.69	1.21	0.78	0.12	0	0	2.83	
Corolla	0.08	0.83	1.13	0.63	0.06	0	0	2.73	
Deltaville	0.03	0.65	1.73	0.62	0.11	0	0	3.14	
Edenton	0.28	0.93	1.52	0.68	0.04	0	0.01	3.46	
Elizabeth City	0.15	0.86	1.19	0.88	0.06	0	0.01	3.15	
Emporia	0.24	1.04	1.23	0.30	0.03	0	0	2.84	
Farmville	0.15	0.84	0.99	0.16	0.02	0	0	2.16	
Hampton / Newport News	0.06	0.82	1.60	0.90	0.10	0	0	3.48	
Louisa	0.07	0.62	1.26	0.39	0.06	0	0	2.40	
Norfolk / Portsmouth	0.07	0.85	1.42	1.08	0.10	0	0	3.52	
Ocean City	0.01	0.31	1.00	0.61	0.26	0.01	0	2.20	
Petersburg	0.12	0.84	1.30	0.39	0.06	0	0	2.71	
Richmond	0.08	0.77	1.34	0.45	0.07	0	0	2.71	
Salisbury	0.01	0.34	1.28	0.75	0.19	0.01	0	2.58	
South Hill	0.25	0.96	0.92	0.21	0.02	0	0	2.36	
Suffolk	0.13	0.87	1.50	0.76	0.07	0	0	3.33	
Tappahannock	0.02	0.58	2.05	0.53	0.11	0	0	3.29	
Virginia Beach	0.04	0.81	1.23	0.74	0.09	0	0	2.91	
Williamsburg	0.05	0.77	1.57	0.57	0.09	0	0	3.05	

*Table values in inches

**Created: 6 am EST Sun 12/17/2023

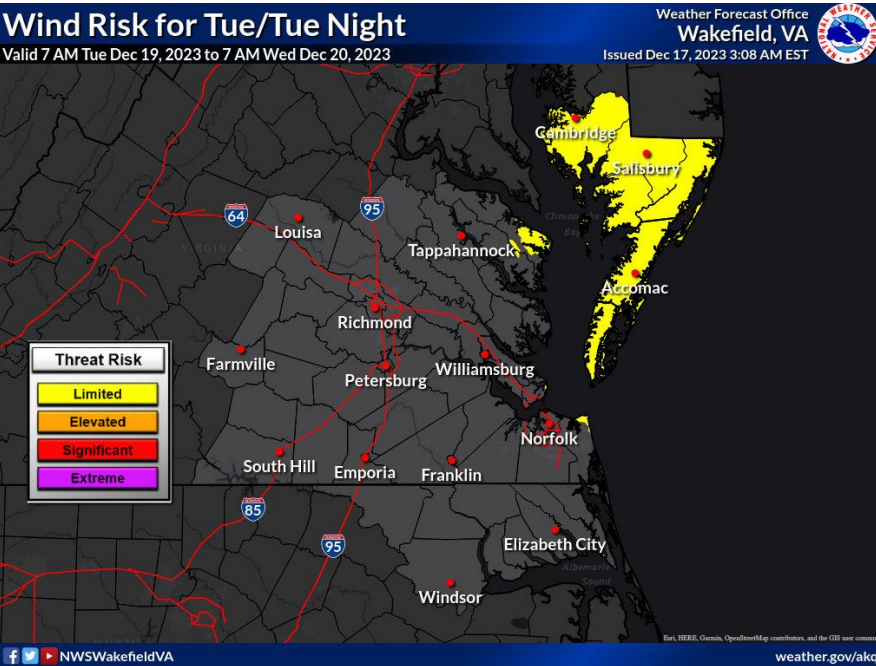
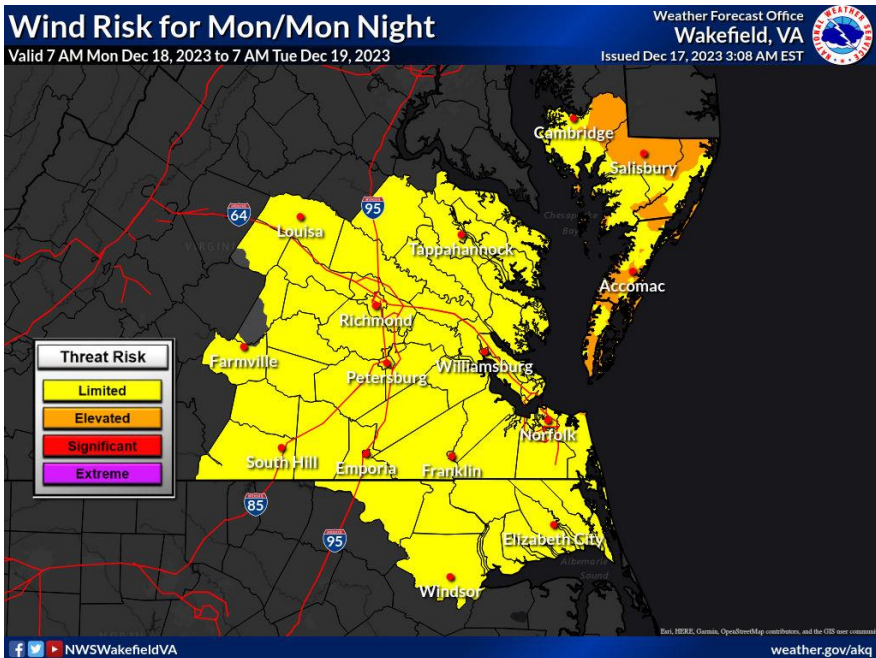
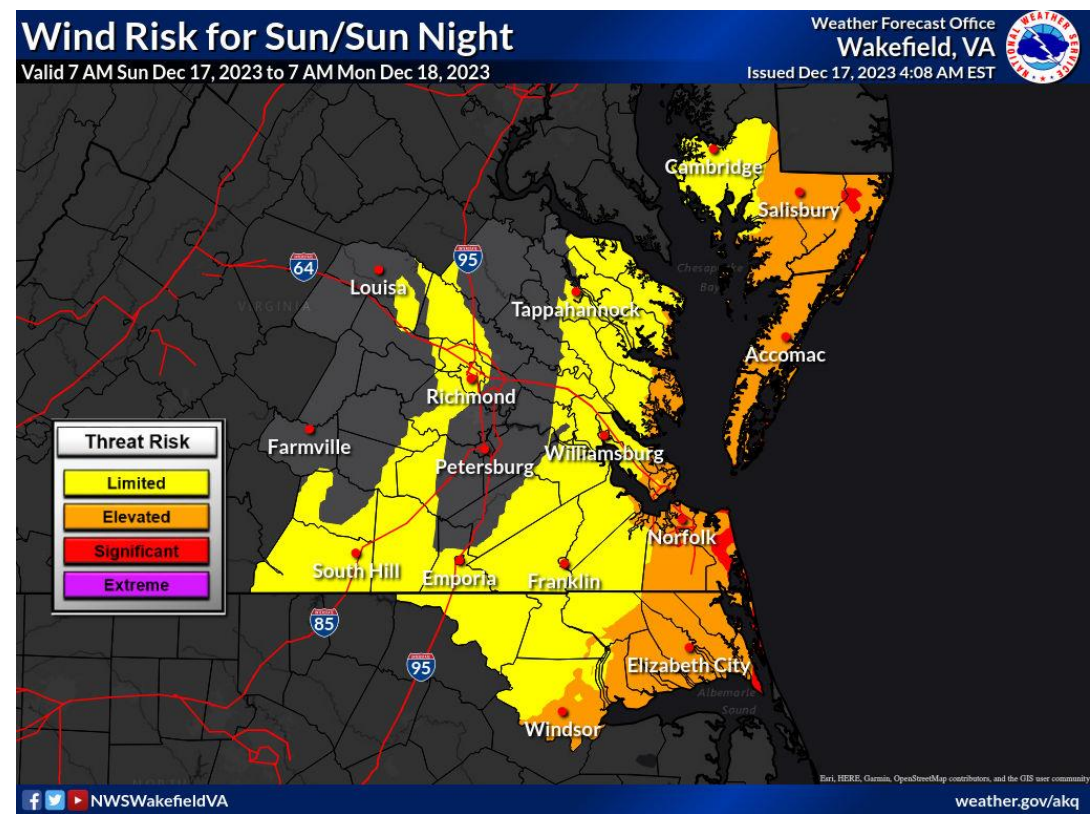
***Values are accumulations over the period beginning at the time shown.





High Wind Potential - Today to Tue

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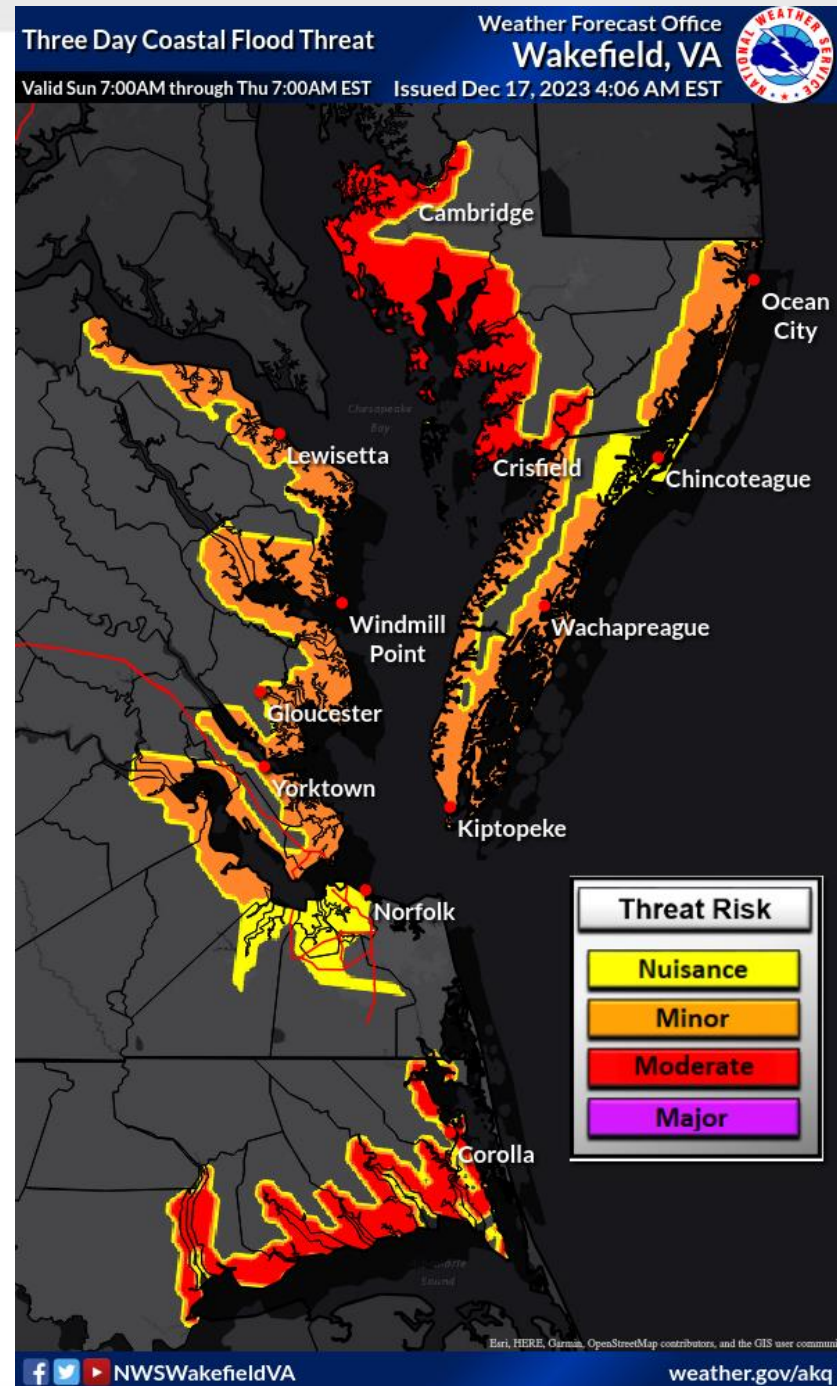
Limited	Breezy conditions with 30 to 40 mph wind gusts could blow around unsecured items and result in hazardous driving conditions for high-profile vehicles.
Elevated	Windy conditions with 40 to 50 mph wind gusts could damage light outdoor items, cause isolated power outages and result in hazardous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

December 17, 2023
8:53 AM



- Nuisance to minor tidal flooding is possible in most areas during the high tide cycles this 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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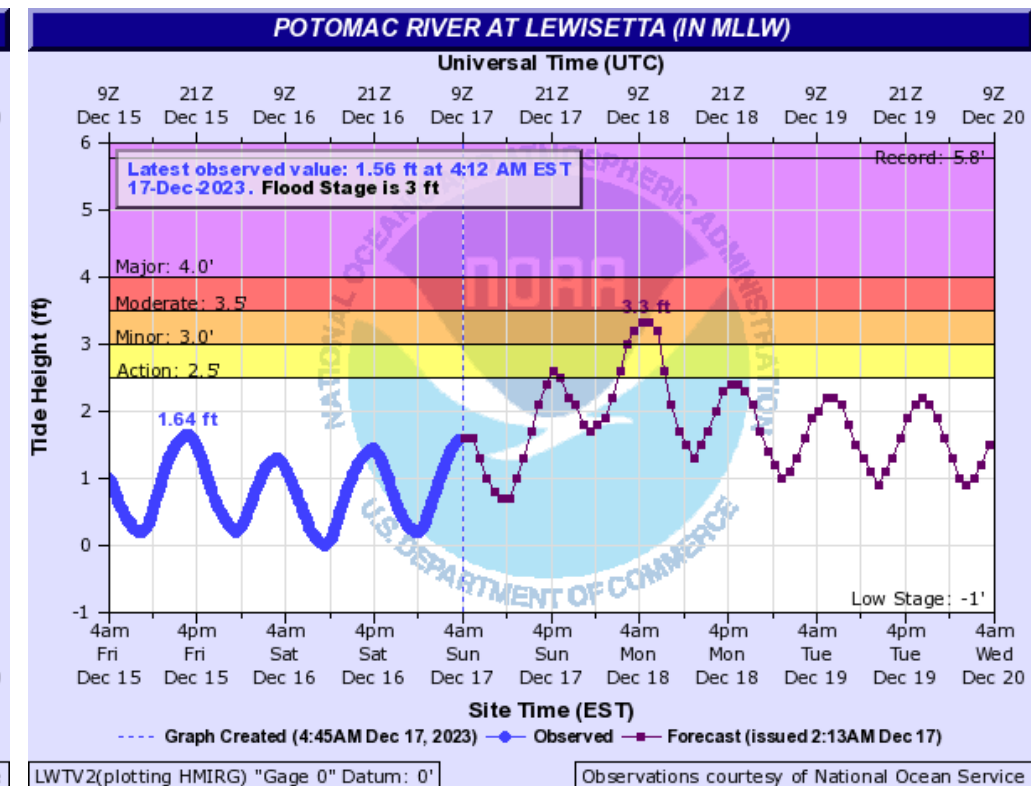
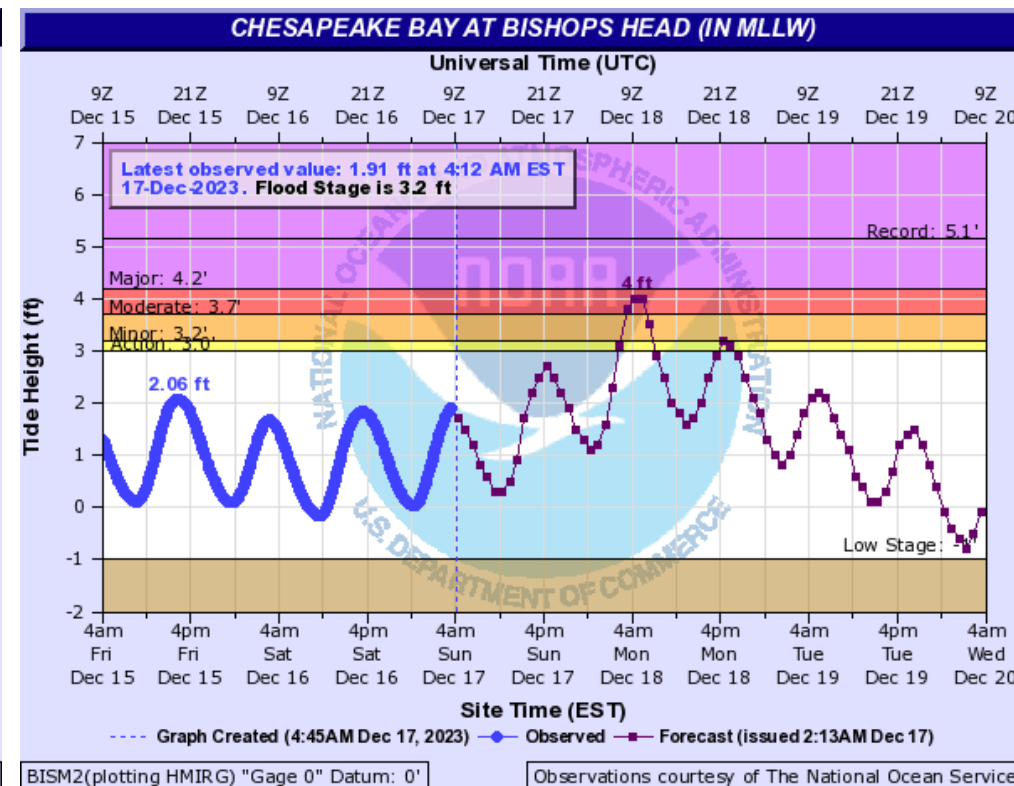
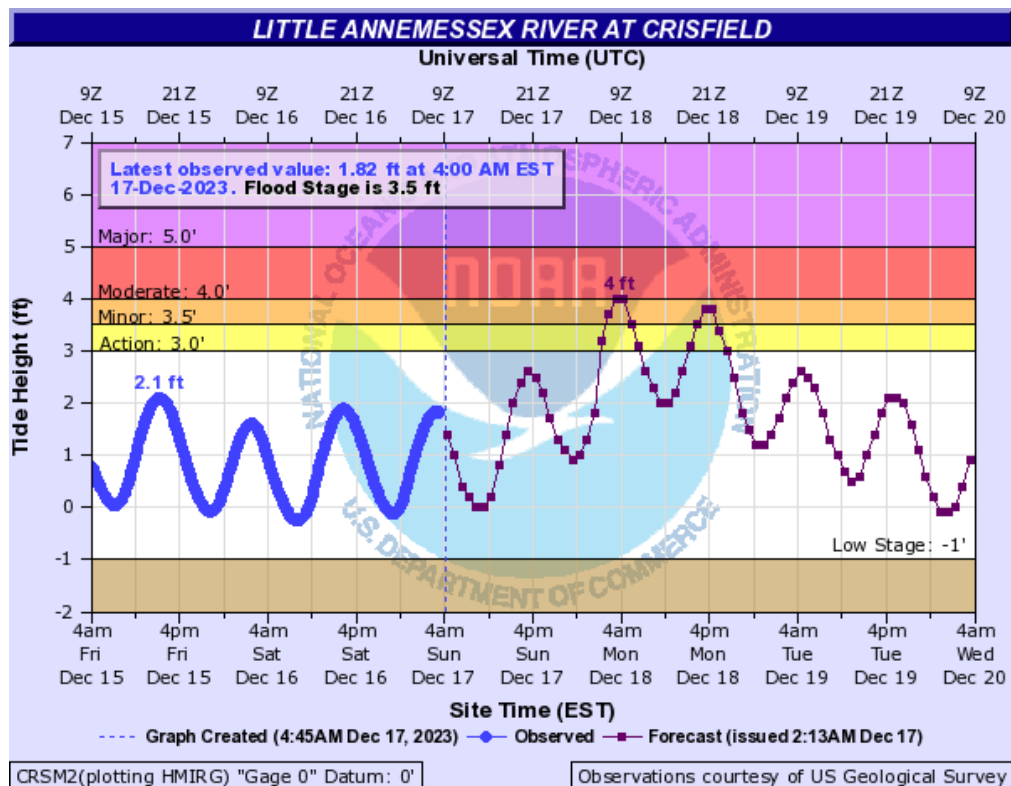
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Tidal Overview - Upper Bay

December 17, 2023
8:53 AM

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](#)

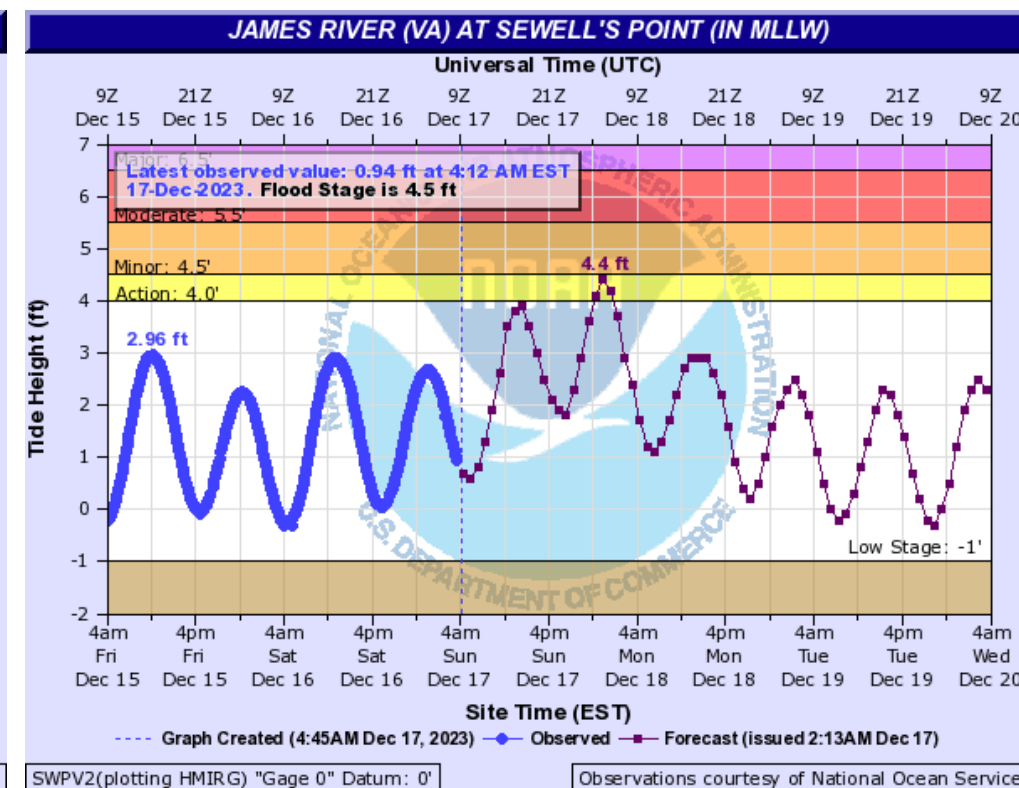
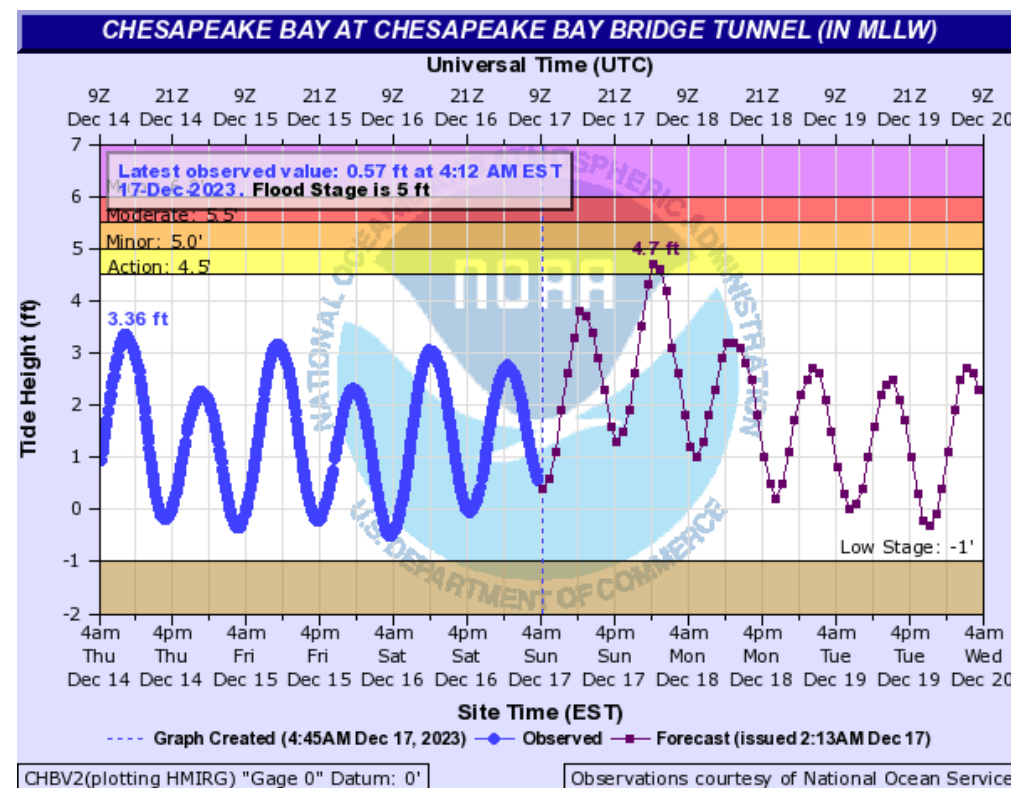
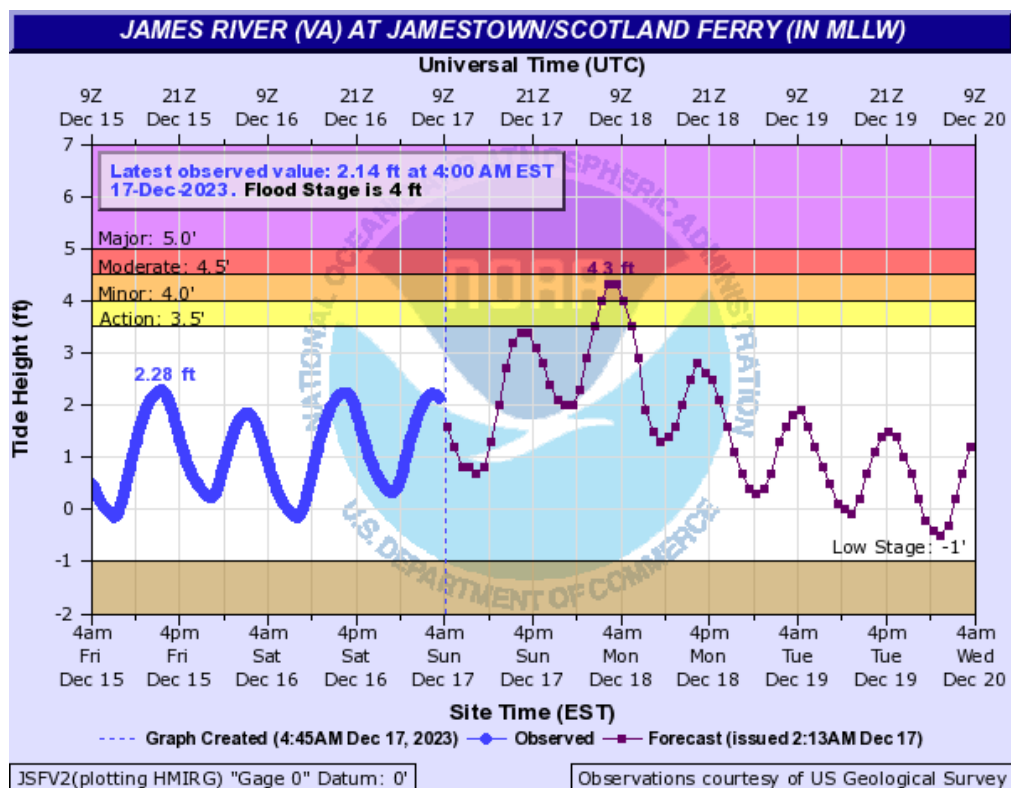




Tidal Overview - Lower Bay/James

December 17, 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 this 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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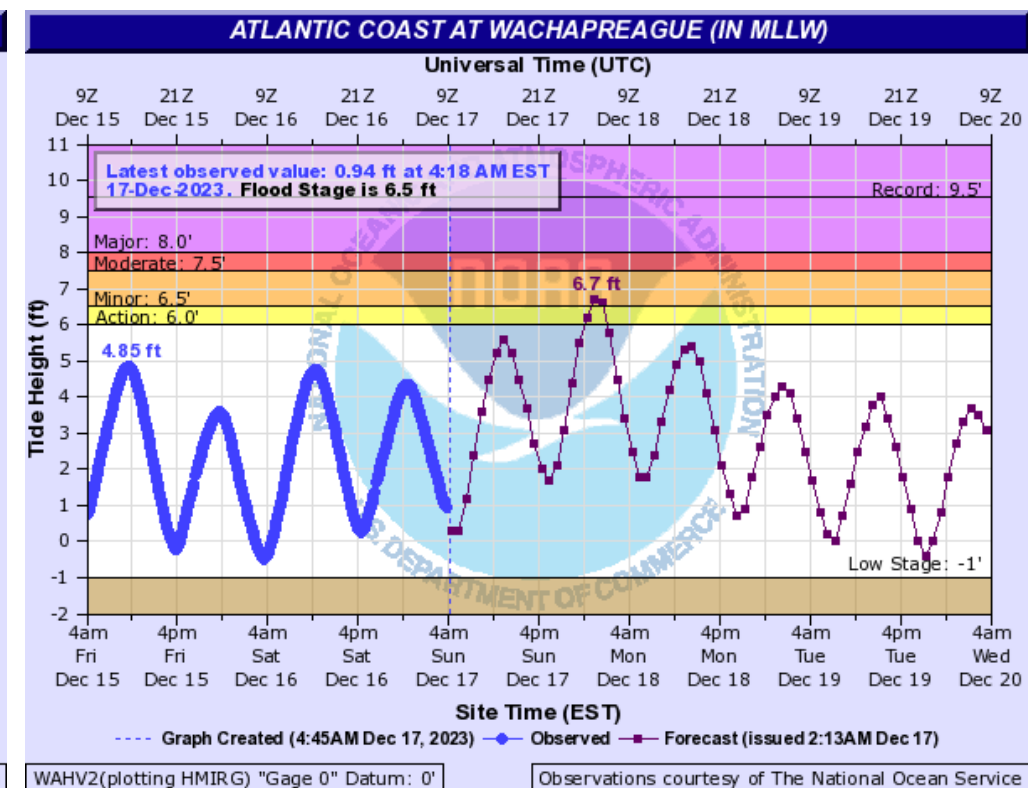
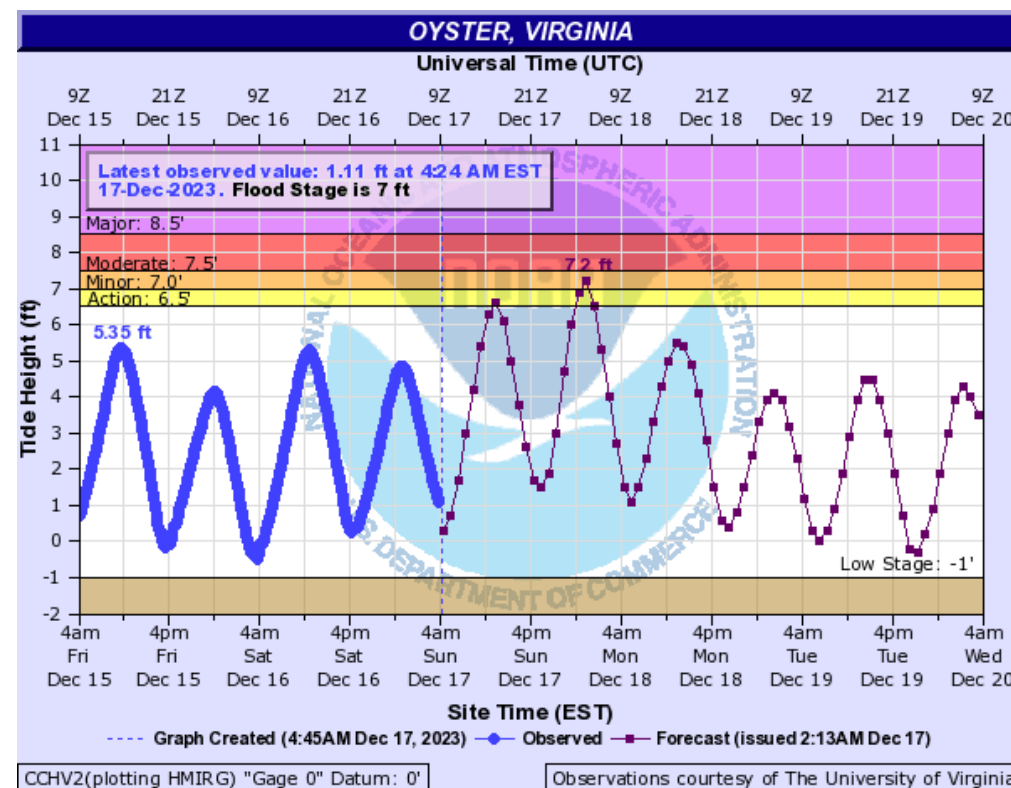
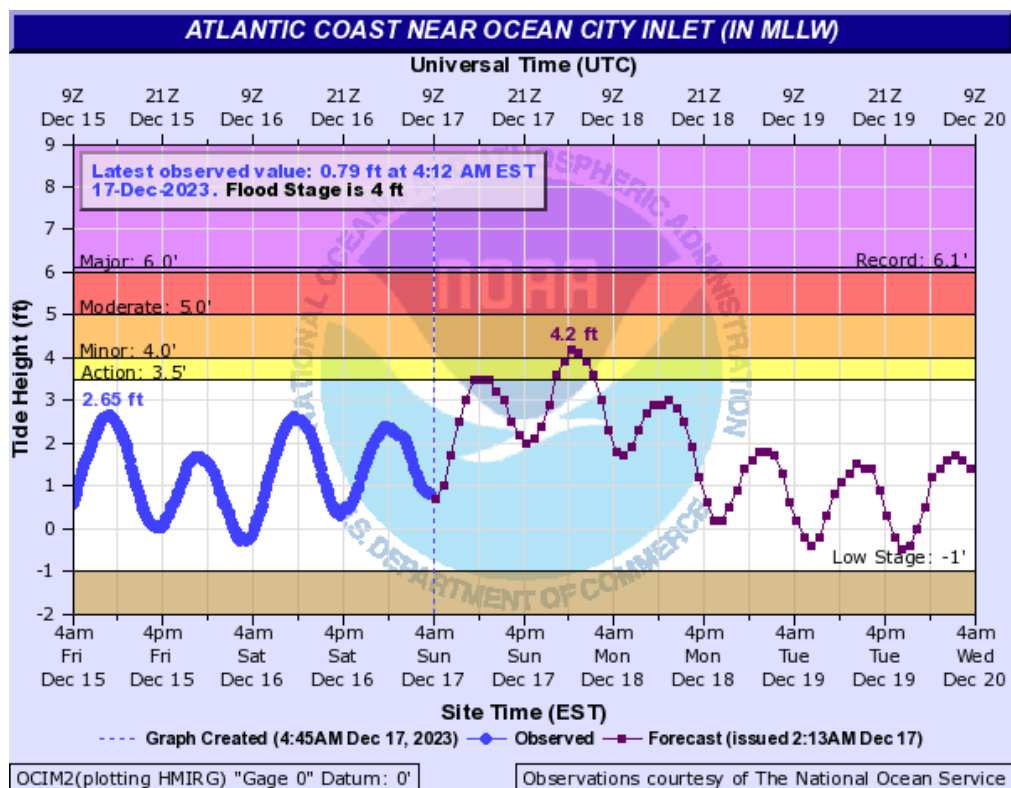
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Tidal Overview - Ocean

December 17, 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 this 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](#)



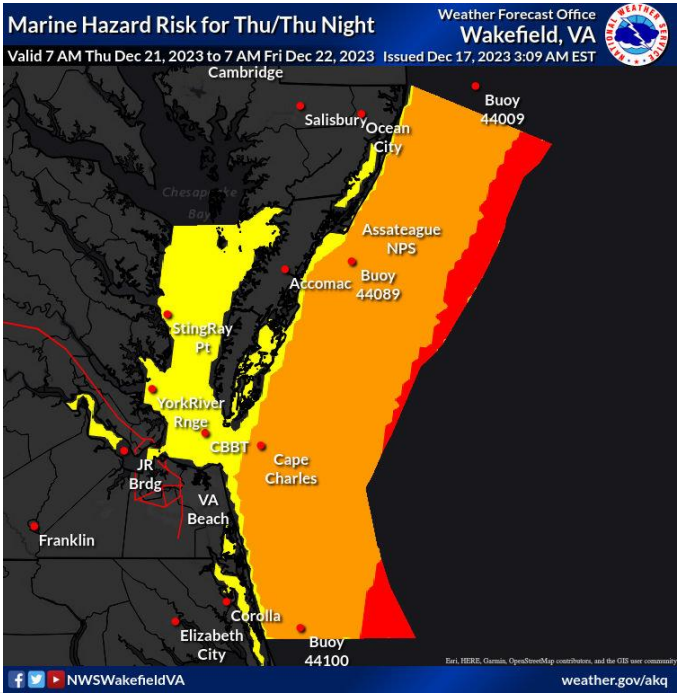
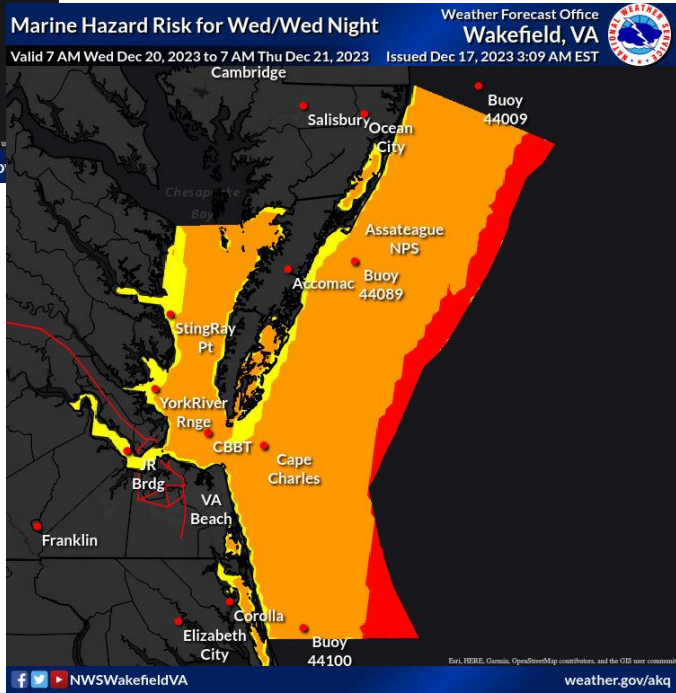
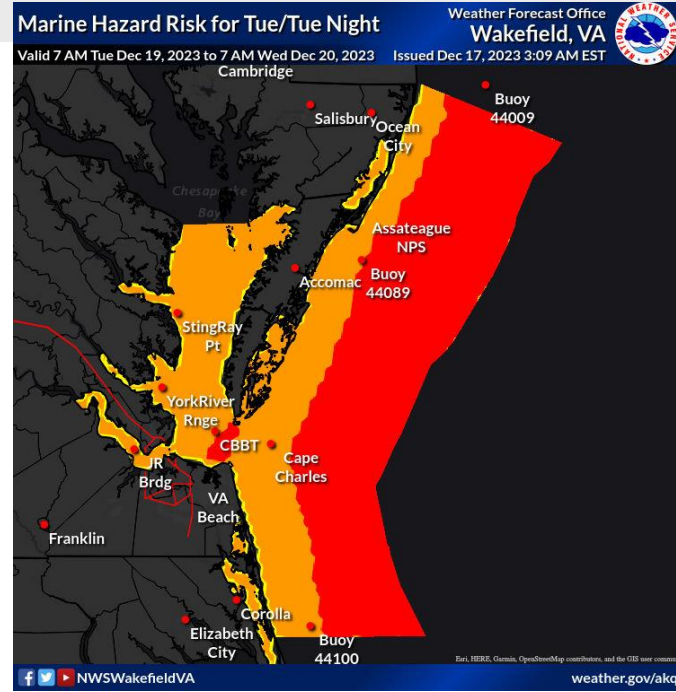
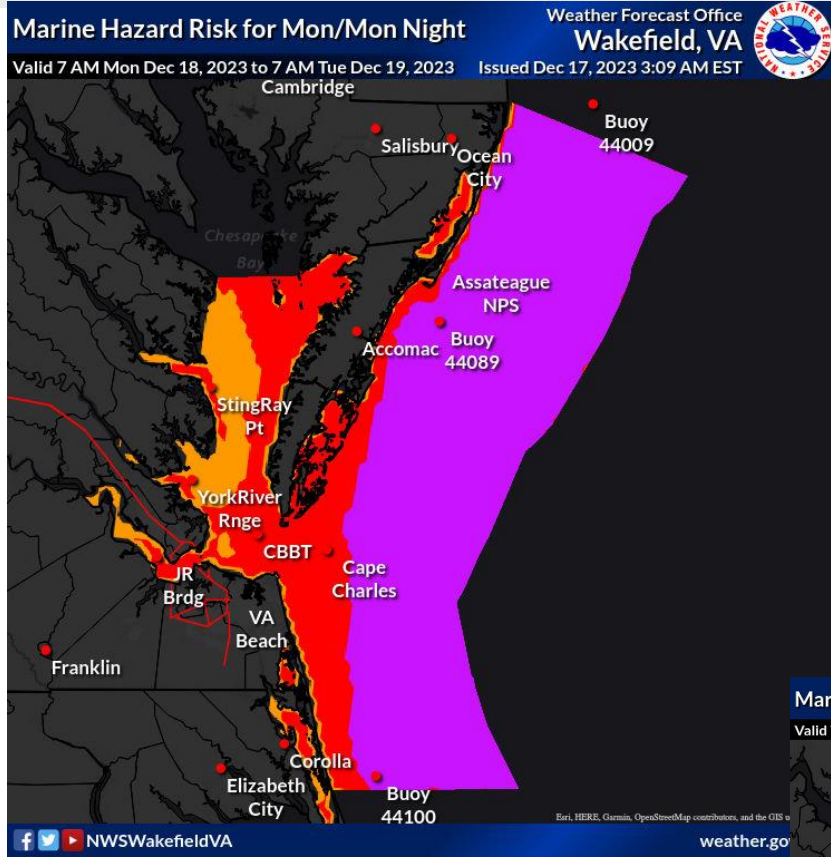
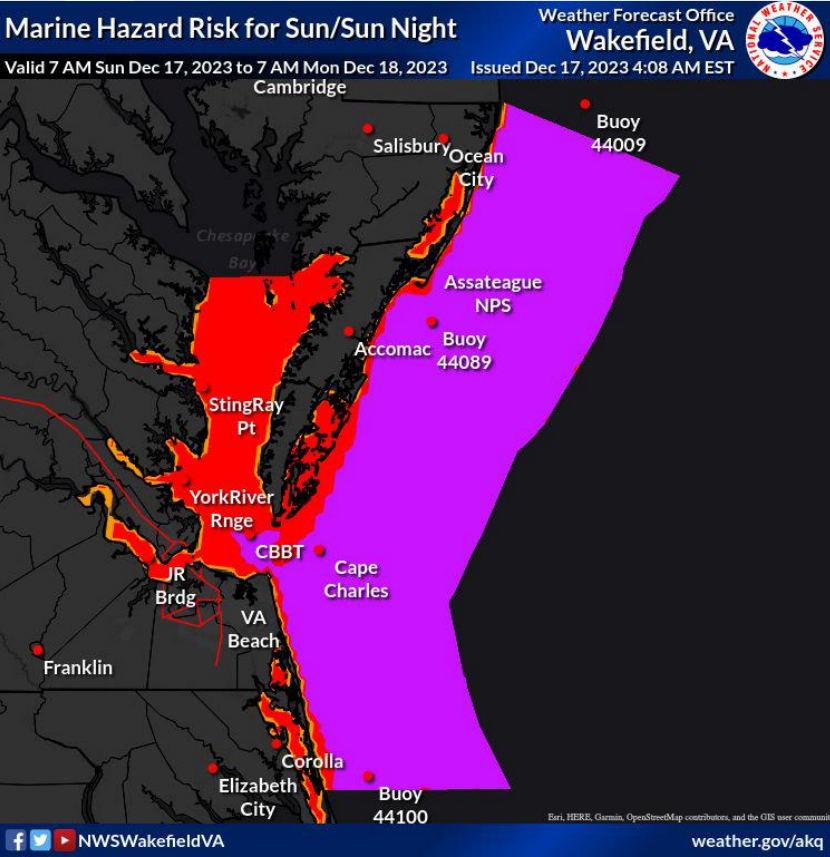
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Marine Threat Potential - Next 5 Days

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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).





Marine Wind and Waves

December 17, 2023
8:53 AM

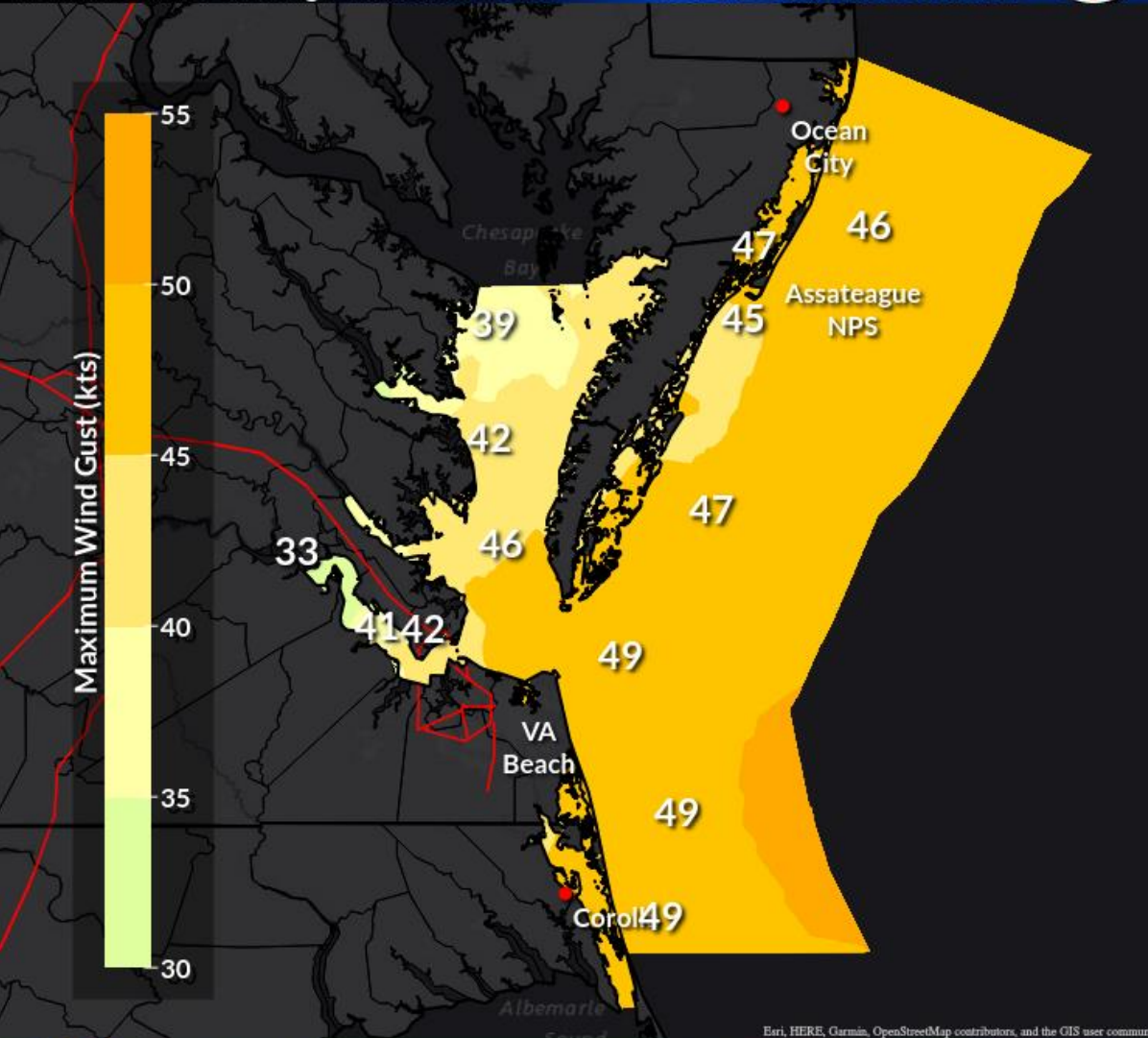
Max Wind Gust Through 72 Hrs (kt)

Weather Forecast Office
Wakefield, VA



Valid Sun 7:00AM through Wed 7:00PM EST

Issued Dec 17, 2023 3:13 AM EST



f t NWSWakefieldVA

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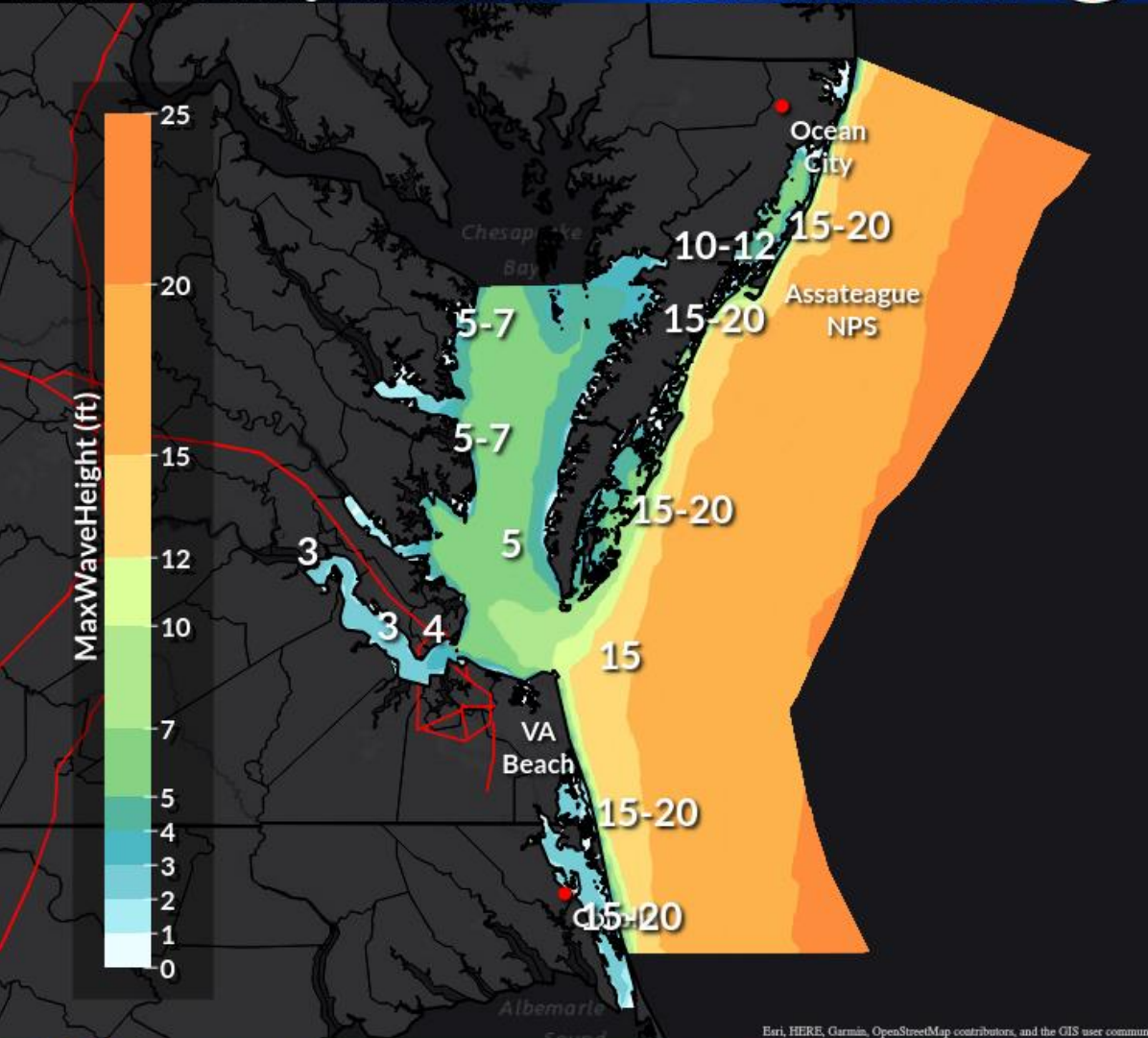
Max Wave Height 0-72HRS

Weather Forecast Office
Wakefield, VA



Valid Sun 7:00AM through Wed 7:00PM EST

Issued Dec 17, 2023 3:13 AM EST



f t NWSWakefieldVA

weather.gov/akq

Key Points:

- Southeast winds will quickly increase later today. Gusts to 40 to 50 kt are expected late afternoon-most of tonight.
- Dangerous seas of 12-18 feet are expected from this evening-most of Monday.
- Winds become W at 25-30 kt with gusts to 35-40 kt on Monday.

For Port specific forecast information visit: https://www.weather.gov/akq/dss_port



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Regional Marine Forecasts (wind in kt)

Wind Gust Forecast

	12/17 Sun						12/18 Mon						Maximum	
	6am	9am	12pm	3pm	6pm	9pm	12am	3am	6am	9am	12pm	3pm		6pm
CBBT	16↖	19↖	21↖	26↖	34↖	42↖	38↖	26↗	28↗	34↗	34↗	26↗	21↗	42
Cape Henry	16↖	19↖	23↖	28↖	36↖	44↖	40↖	30↗	29↗	34↗	34↗	26↗	21↗	44
Chesapeake Light	16↖	18↖	23↖	28↖	35↖	44↖	43↖	35↗	30↗	35↗	35↗	28↗	23↗	44
Chincoteague Shoal	15↖	15↖	19↖	21↖	28↖	38↖	43↖	37↖	28↗	32↗	35↗	29↗	21↗	43
Duck, NC	16↖	19↖	24↖	30↖	39↖	44↖	41↖	32↗	29↗	32↗	31↗	25↗	19↗	44
Fenwick Shoal	17↖	17↖	19↖	21↖	25↖	37↖	45↖	41↖	34↗	31↗	38↗	33↗	24↗	45
HRBT	14↖	16↖	20↖	25↖	33↖	38↖	30↖	20↗	24↗	32↗	32↗	26↗	20↗	38
JRB	14↖	15↖	19↖	24↖	32↖	38↖	28↖	19↗	26↗	32↗	32↗	27↗	21↗	38
New Point Comfort	14↖	16↖	20↖	24↖	31↖	39↖	34↖	22↗	25↗	31↗	31↗	25↗	20↗	39
Parramore Banks	15↖	15↖	19↖	21↖	29↖	39↖	41↖	33↗	26↗	32↗	34↗	26↗	19↗	41
Rappahannock Light	13↖	14↖	16↖	19↖	26↖	35↖	34↖	24↗	25↗	31↗	33↗	25↗	17↗	35
Tangier	14↖	16↖	18↖	19↖	25↖	34↖	34↖	24↗	25↗	33↗	34↗	24↗	17↗	34
Thimble Shoal	16↖	18↖	21↖	26↖	34↖	41↖	36↖	25↗	26↗	33↗	33↗	25↗	21↗	41

*Table values in kt
**Created: 6 am EST Sun 12/17/2023

Wave Height Forecast

	12/17 Sun						12/18 Mon							
	6am	9am	12pm	3pm	6pm	9pm	12am	3am	6am	9am	12pm	3pm	6pm	Maximum
CBBT	2.0	3.0	4.0	6.0	7.0	7.0	8.0	7.0	6.0	6.0	5.0	5.0	5.0	8.0
Cape Henry	2.0	3.0	4.0	6.0	9.0	12.0	13.0	12.0	11.0	9.0	9.0	8.0	7.0	13.0
Chesapeake Light	3.0	4.0	6.0	8.0	12.0	16.0	17.0	16.0	14.0	12.0	11.0	10.0	9.0	17.0
Chincoteague Shoal	3.0	3.0	4.0	6.0	9.0	14.0	15.0	15.0	14.0	13.0	12.0	11.0	10.0	15.0
Duck, NC	3.0	4.0	6.0	8.0	10.0	13.0	13.0	12.0	11.0	10.0	9.0	8.0	7.0	13.0
Fenwick Shoal	3.0	4.0	4.0	5.0	8.0	12.0	15.0	15.0	15.0	15.0	14.0	13.0	13.0	15.0
HRBT	2.0	3.0	3.0	4.0	4.0	4.0	4.0	3.0	3.0	3.0	3.0	3.0	2.0	4.0
JRB	1.0	2.0	2.0	2.0	3.0	3.0	3.0	2.0	3.0	3.0	3.0	3.0	2.0	3.0
New Point Comfort	2.0	3.0	3.0	4.0	5.0	6.0	6.0	5.0	3.0	3.0	3.0	3.0	2.0	6.0
Parramore Banks	3.0	4.0	4.0	6.0	9.0	14.0	15.0	14.0	13.0	12.0	11.0	10.0	9.0	15.0
Rappahannock Light	2.0	2.0	2.0	3.0	4.0	5.0	5.0	4.0	4.0	5.0	4.0	4.0	3.0	5.0
Tangier	2.0	2.0	2.0	3.0	3.0	4.0	4.0	3.0	4.0	4.0	4.0	4.0	3.0	4.0
Thimble Shoal	2.0	3.0	3.0	4.0	6.0	6.0	7.0	6.0	5.0	5.0	4.0	4.0	3.0	7.0

*Table values in feet
**Created: 6 am EST Sun 12/17/2023
***Values are maximums over the period beginning at the time shown.

**Peak wind gusts will likely reach 50 kt this evening
into early Monday morning**





Key Messages

December 17, 2023
8:53 AM

- Moderate to heavy rain is expected later today through Monday morning with a widespread 2-4" (locally higher) expected. This may lead to localized flooding, especially in urban areas and areas with poor drainage.
- Strong southeast winds expected this afternoon through Monday. Strongest wind gusts will be this evening with 45-55 mph gusts expected near the coast and 25-40 mph gusts expected inland. Wind advisories remain in effect for areas near the bay/coast. Localized power outages are possible.
- Potential for moderate coastal flooding in the middle/upper Chesapeake Bay as well as the north side of the Albemarle Sound and nuisance to minor flooding elsewhere. Highest tide would be Monday morning (water levels likely peak tonight from Edenton-Elizabeth City).
- Marine: Gale Warnings are in effect across all marine zones this afternoon into early Monday afternoon. Strong southeast winds will gust 40-50 kt this evening-tonight. Winds become west on Monday with 35-40 kt gusts expected. Seas build to 12-18 ft.





Contact and Next Briefing Information

December 17, 2023
8:53 AM

For NWS Wakefield, Virginia



Briefing Webpage

→ [NWS Wakefield Briefing](#)



Next Briefing

- By 6:00 PM EST, Sunday, December 17
- Method: Email



Disclaimer

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



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