



# Weekend Storm Briefing

December 16, 2023  
5:53 PM

Prepared by National Weather Service Wakefield, VA

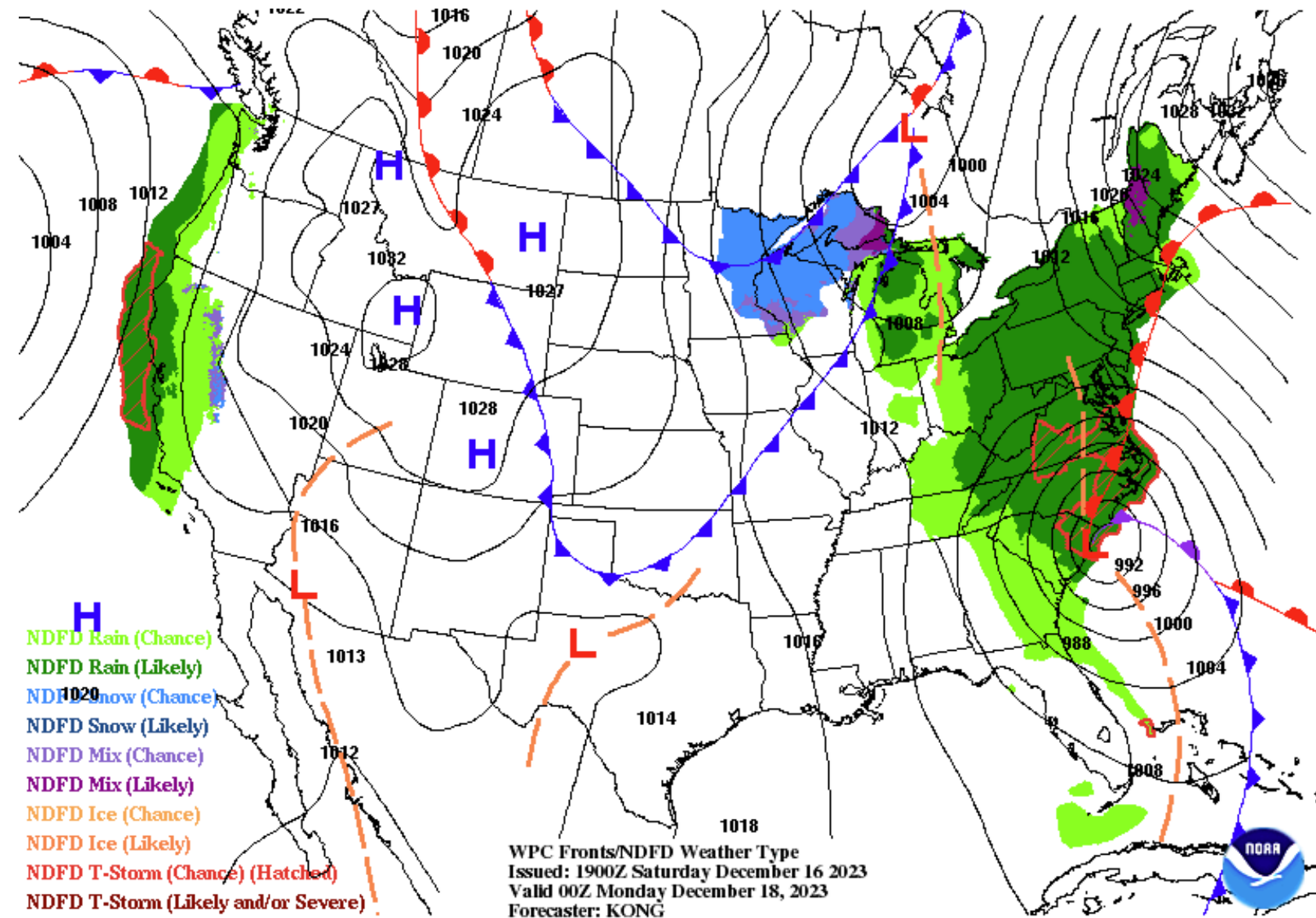
## Decision Support Briefing #3

→ As of 6:00 PM EST  
Saturday, December 16, 2023

NEW

## Important Updates

- A Flood Watch has been issued from the I-95 corridor to the coast
- Wind Advisories have been expanded to include the western shore of the Chesapeake Bay
- Coastal Flood Advisories are in effect for coastal areas that are not currently under a Coastal Flood Watch



*Disclaimer: Information may become outdated after briefing time.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

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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 expanded to include the western shore of the Chesapeake Bay. 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
 <b>Heavy Rain</b>	Rainfall of 2-3" (locally higher) may lead to localized flooding, especially in urban areas	Entire forecast area	Sunday morning through Monday morning
 <b>High Wind</b>	Gusts of 45 to 55 mph may result in localized power outages	Near/along the coast	Sunday afternoon into Monday morning. Highest Sunday evening
<b>Severe Thunderstorms</b>	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
 <b>Coastal Flooding</b>	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
 <b>Marine</b>	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

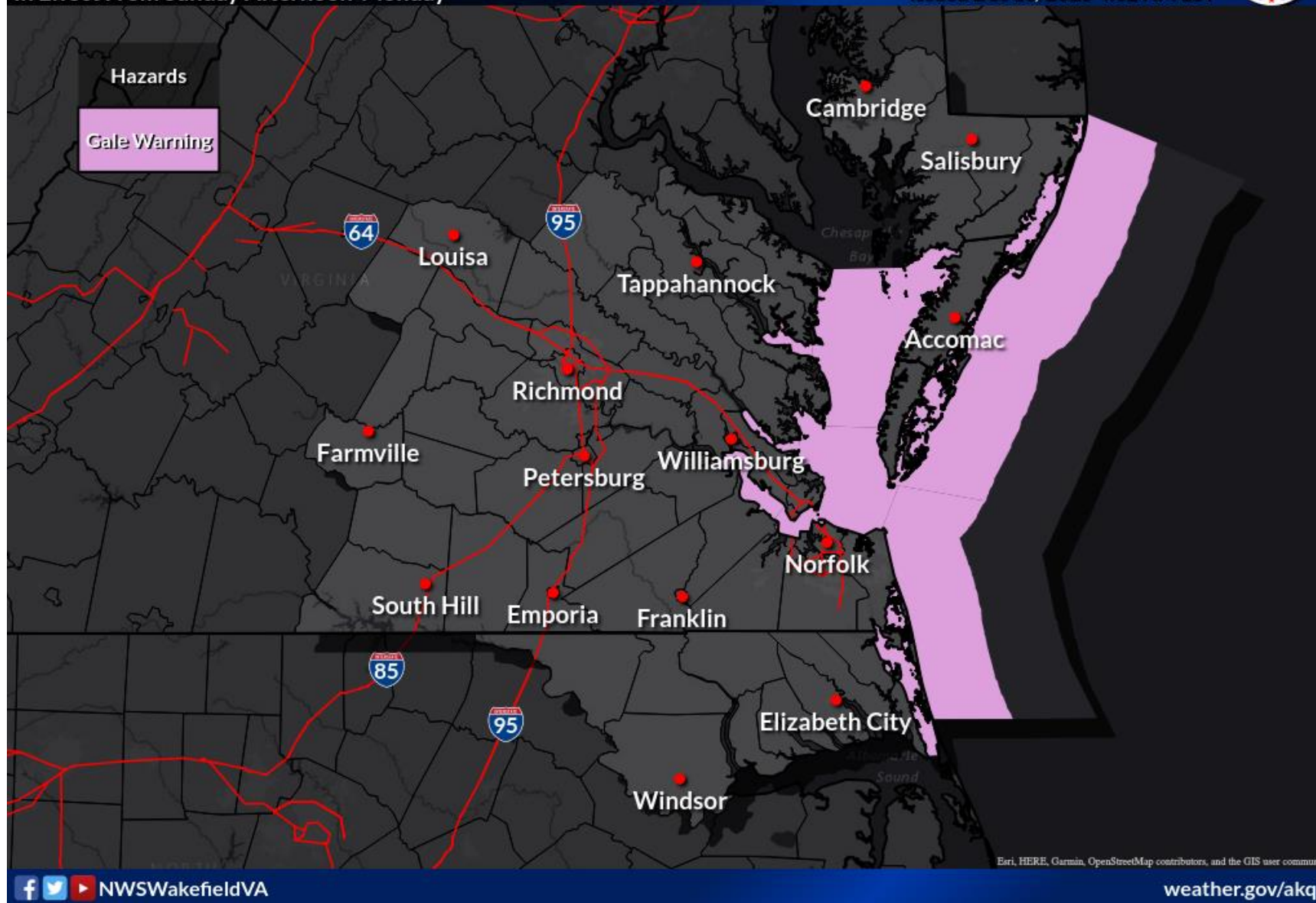
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## Marine Hazards

In Effect From Sunday Afternoon-Monday

Weather Forecast Office  
Wakefield, VA

Issued Dec 16, 2023 4:02 AM EST



- Gale Warnings remain in effect 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](http://www.weather.gov/akq) for the latest information



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# Land Wind Hazard Overview

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## Wind Advisories

In Effect from later Sunday Afternoon-Monday Morning

Weather Forecast Office

Wakefield, VA

Issued Dec 16, 2023 5:36 PM EST



f t y NWSWakefieldVA

weather.gov/akq

- Wind Advisories have been expanded to include the western shore of the Chesapeake Bay.
- SE winds will gust to 45-55 mph in the advisory area.
- See [www.weather.gov/akq](http://www.weather.gov/akq) for the latest information



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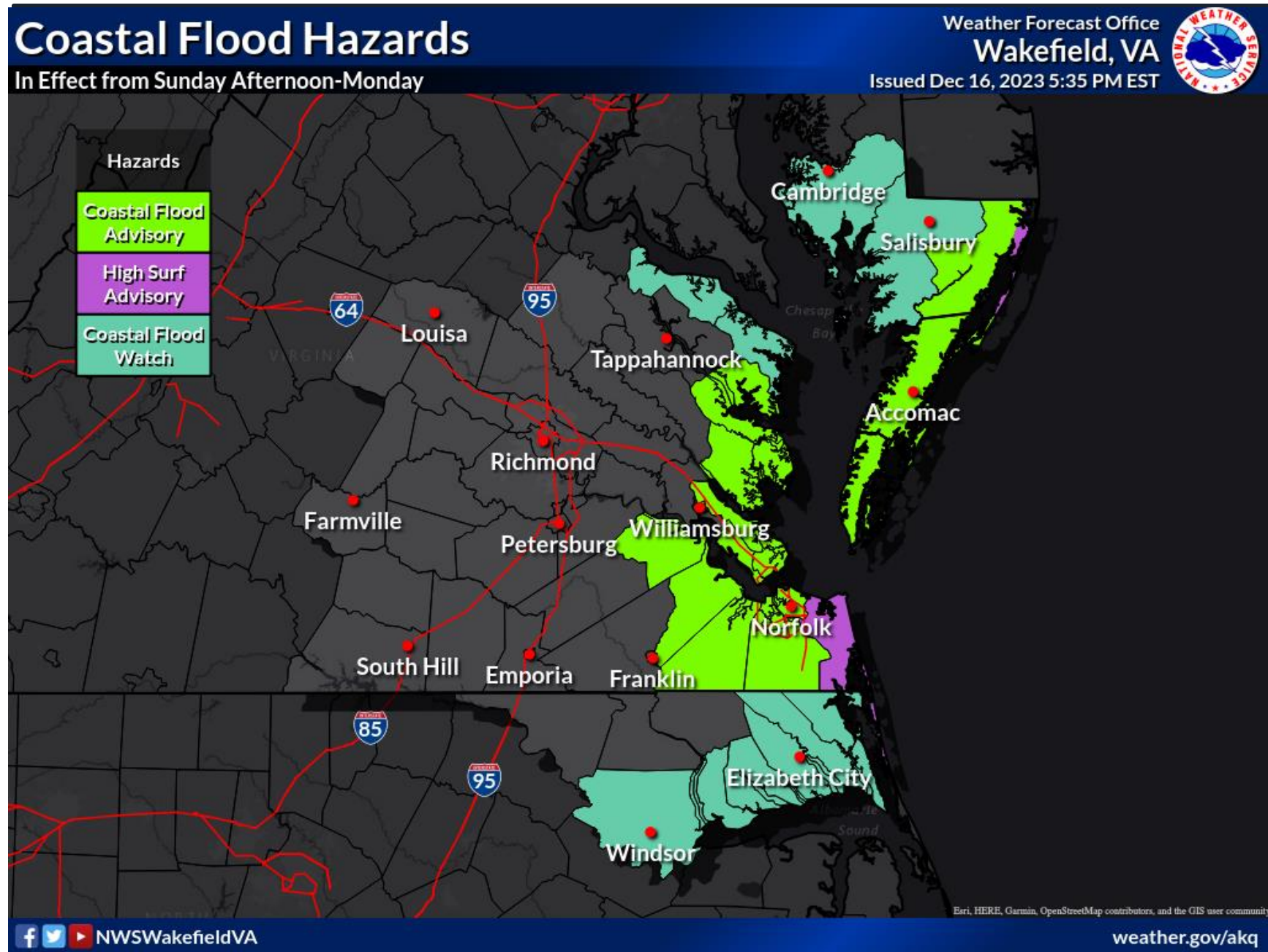
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# Coastal Flood Hazard Overview

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- Coastal Flood Watches remain 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.
- Coastal Flood Advisories have been added 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](http://www.weather.gov/akq) for the latest information



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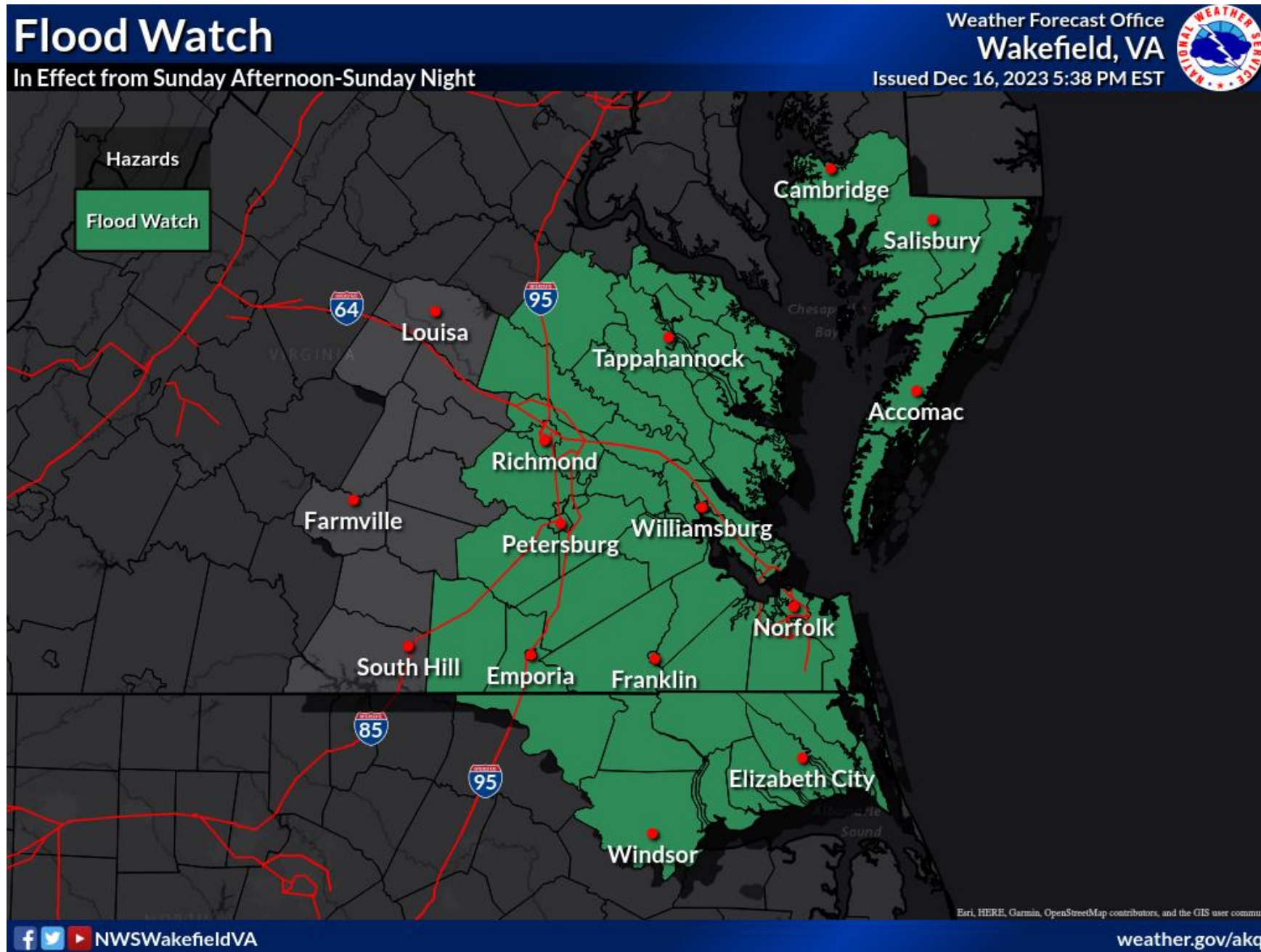
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# Flood Watch

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- Widespread 2 to 3 inches of rain with locally higher amounts.
- Rain will move in early Sunday morning and continue into Monday morning. Heaviest rain will likely be Sunday evening/Sunday night.
- Periods of heavy rain may limit visibility, especially combined with 30-40 mph wind gusts. Heavy rain may also lead to localized flooding in vulnerable areas.



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# 72-hour Rainfall Amount

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

Weather Forecast Office  
Wakefield, VA  
Issued Dec 16, 2023 5:48 PM EST

QPF72hr (in)

4"

3"

2"

2-3"

Louisa

Tappahannock

Richmond

Farmville

Petersburg

Williamsburg

Norfolk

South Hill

Emporia

Franklin

Windsor

Elizabeth City

Cambridge

Salisbury

Accomac

Chesapeake Bay

Albemarle Sound

64

95

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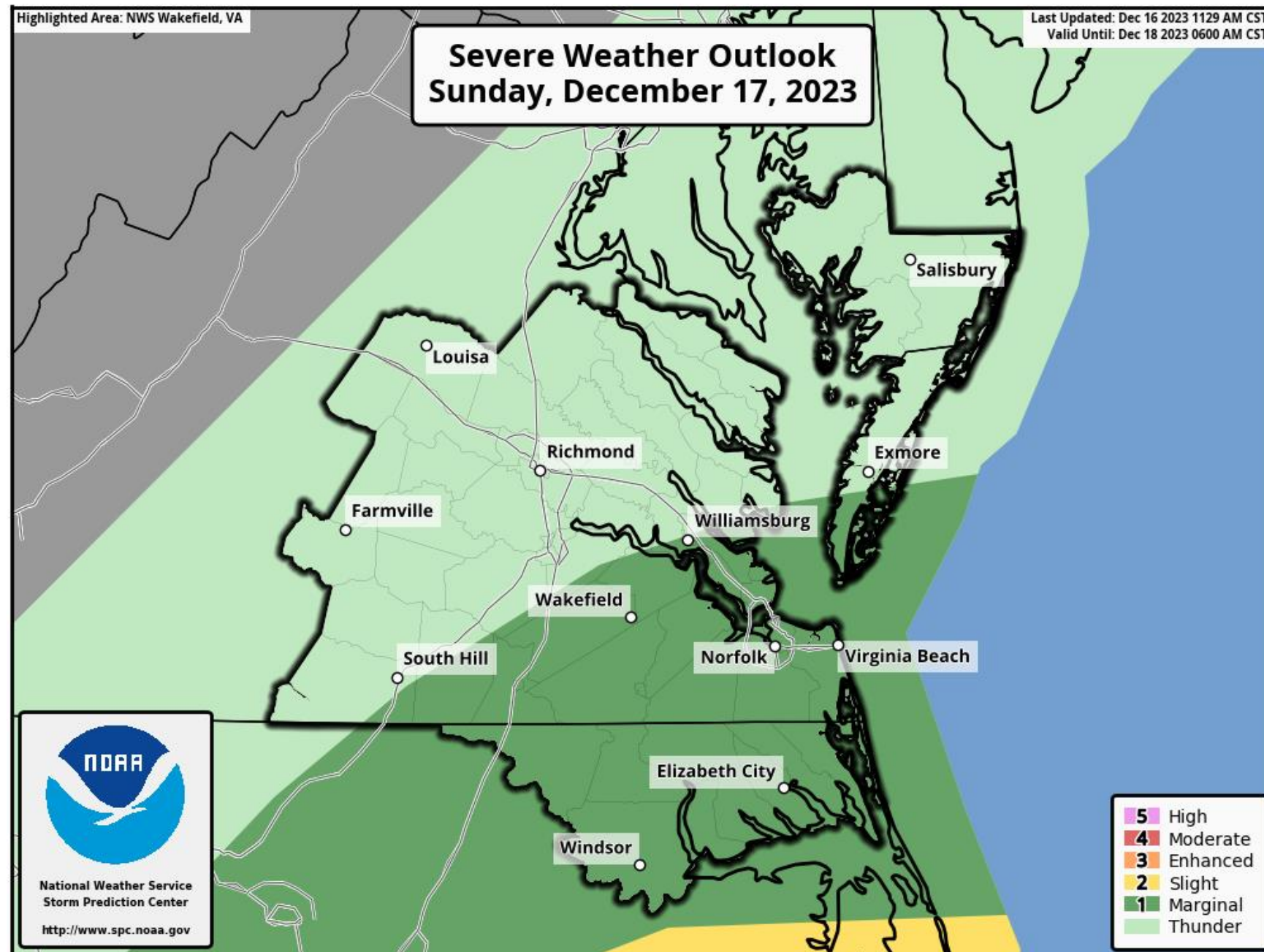
- Widespread 2 to 3 inches of rain with locally higher amounts.
- Rain will move in early Sunday morning and continue into Monday morning. Heaviest rain will likely be Sunday evening/Sunday night.
- Periods of heavy rain may limit visibility, especially combined with 30-40 mph wind gusts. Heavy rain may also lead to localized flooding in vulnerable areas.





# Severe Threat - Sunday Evening

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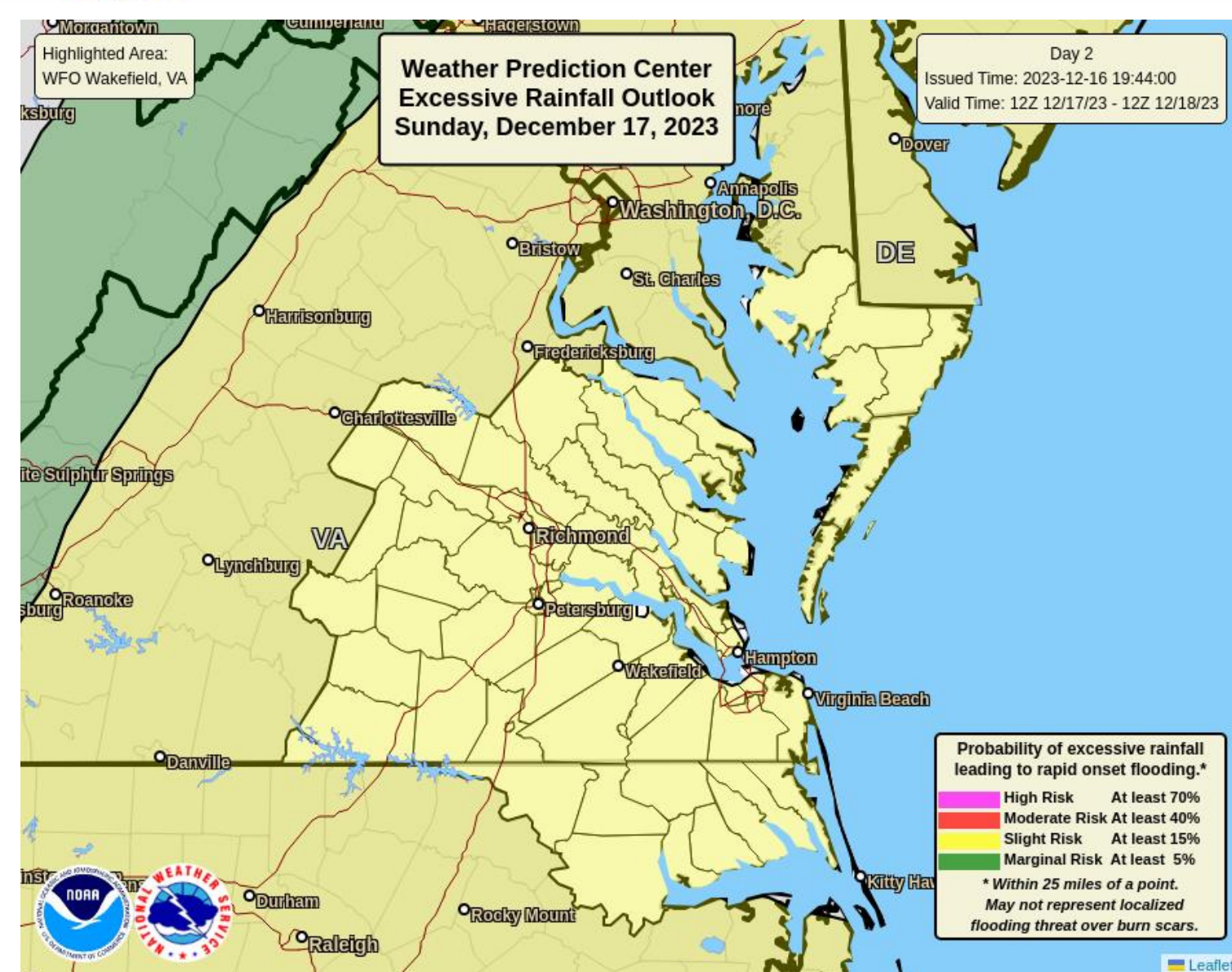
- There is a marginal risk for a few isolated severe thunderstorms across southern and southeast Virginia and northeast North Carolina Sunday evening.
- The main threat is damaging wind gusts to 60+ mph. However, cannot rule out an isolated tornado.





# 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.

<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



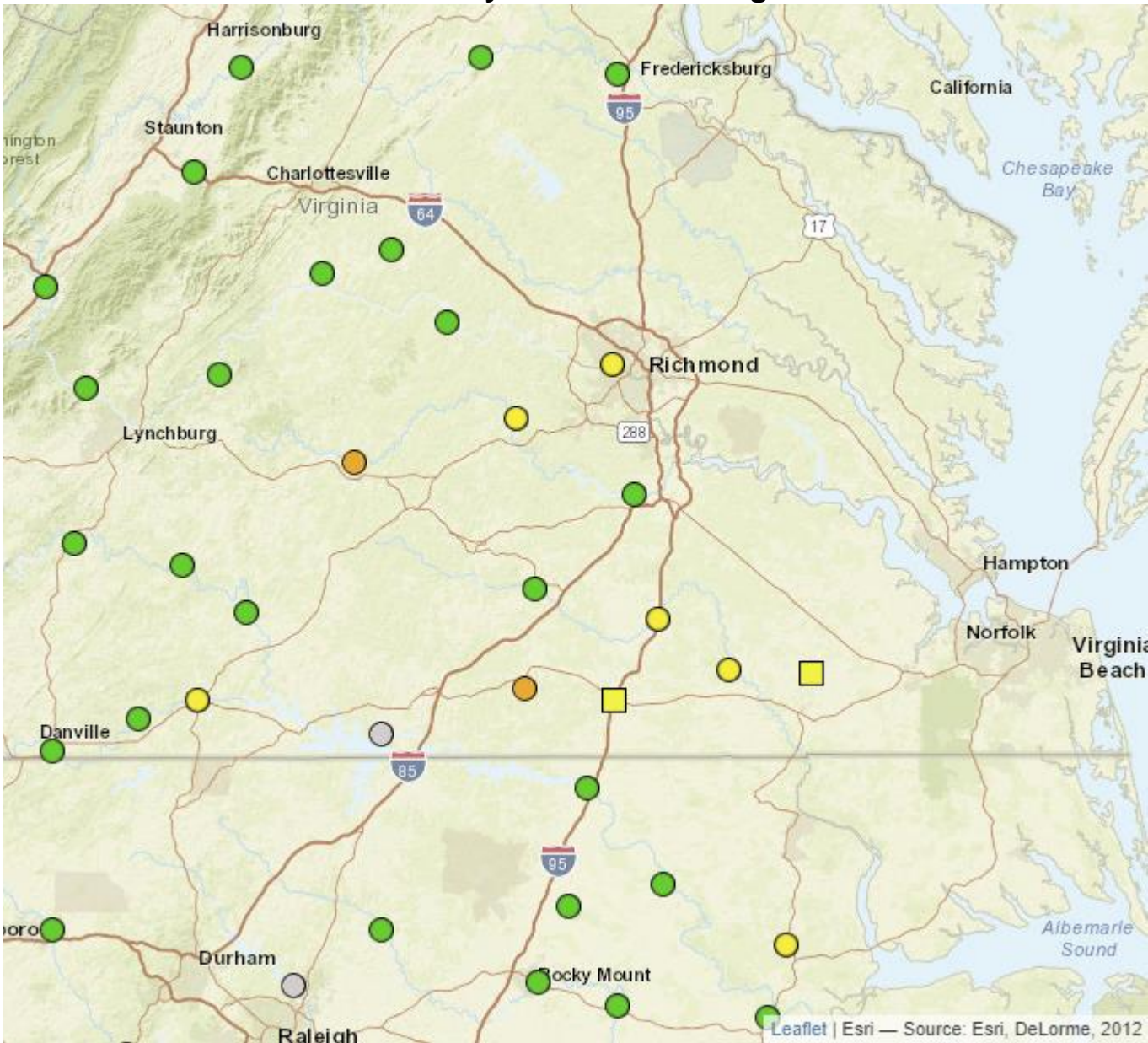




# Minor River Flooding Possible

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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).

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

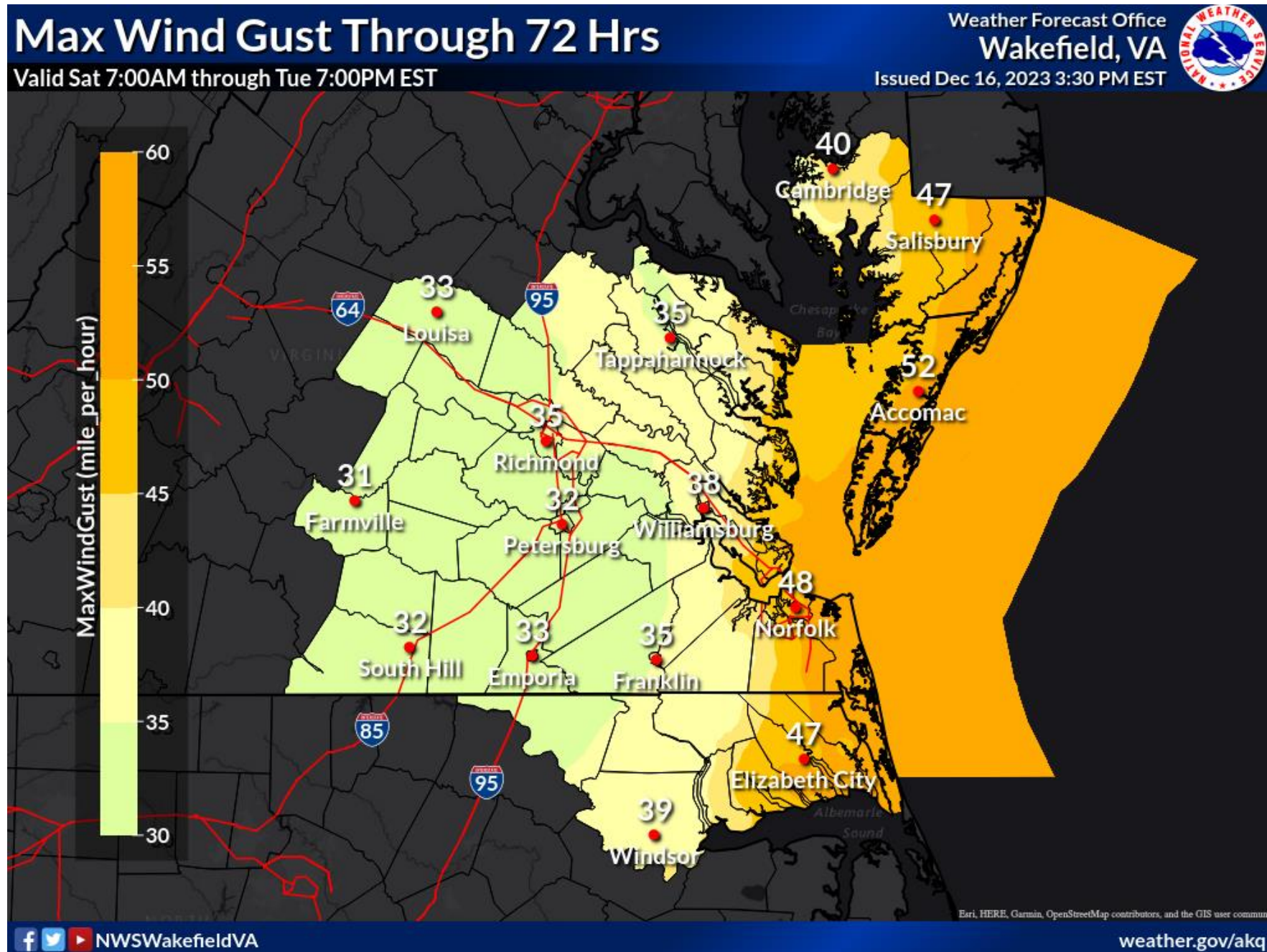






# High Wind Potential

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- 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 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		Rain Forecast												
	12/17 Sun				12/18 Mon				12/19 Tue						12/17 Sun				12/18 Mon				12/19 Tue				Total
	12am	6am	12pm	6pm	12am	6am	12pm	6pm	12am	6am	12pm	6pm			1am	7am	1pm	7pm	1am	7am	1pm	7pm	1am	7am	1pm		
Accomac	8↙	12↙	21↙	33↙	46↗	29↗	39↗	21↗	22↗	29↗	35↗	26↗	46	Accomac	0	0.02	0.52	1.23	0.51	0.20	0	0	0.01	0	0	2.49	
Ahoski	5↘	8↘	22↘	33↘	23↘	28↘	31↘	17↘	17↘	20↘	25↘	13↘	33	Ahoski	0	0.28	0.96	1.23	0.37	0.03	0	0.01	0	0	0	2.88	
Bowling Green	2↘	3↘	12↘	20↘	22↘	25↘	32↘	18↘	15↘	17↘	29↘	16↘	32	Bowling Green	0	0.04	0.62	1.30	0.59	0.03	0	0	0	0	0	2.58	
Cambridge	6↘	10↘	17↘	22↘	38↘	26↘	39↘	22↘	20↘	25↘	35↘	26↘	39	Cambridge	0	0.02	0.35	1.02	0.65	0.23	0	0	0.01	0	0	2.28	
Cape Charles	10↘	15↘	24↘	38↘	43↘	35↘	37↘	23↘	26↘	32↘	33↘	30↘	43	Cape Charles	0	0.05	0.73	1.26	0.52	0.15	0	0	0.01	0	0	2.72	
Corolla	13↘	17↘	30↘	46↘	47↘	38↘	37↘	24↘	25↘	32↘	31↘	25↘	47	Corolla	0	0.08	0.79	0.87	0.34	0.07	0	0.01	0.01	0	0	2.17	
Deltaville	6↘	8↘	17↘	30↘	35↘	25↘	32↘	20↘	20↘	22↘	30↘	21↘	35	Deltaville	0	0.04	0.72	1.31	0.64	0.11	0	0	0	0	0	2.82	
Edenton	6↘	10↘	23↘	37↘	30↘	30↘	31↘	17↘	18↘	21↘	24↘	14↘	37	Edenton	0	0.26	0.93	1.12	0.39	0.03	0	0.01	0.01	0	0	2.75	
Elizabeth City	7↘	13↘	25↘	40↘	35↘	32↘	33↘	18↘	17↘	22↘	28↘	16↘	40	Elizabeth City	0	0.15	0.84	1.07	0.61	0.05	0	0.01	0.01	0	0	2.74	
Emporia	3↘	7↘	17↘	25↘	21↘	26↘	30↘	18↘	20↘	20↘	25↘	13↘	30	Emporia	0	0.25	1.01	1.14	0.36	0.02	0	0	0	0	0	2.78	
Farmville	3↘	6↘	14↘	21↘	20↘	26↘	29↘	20↘	18↘	18↘	23↘	13↘	29	Farmville	0	0.17	0.89	1.10	0.22	0.01	0	0	0	0	0	2.39	
Hampton / Newport News	8↘	12↘	21↘	36↘	35↘	29↘	33↘	21↘	22↘	25↘	30↘	20↘	36	Hampton / Newport News	0	0.06	0.84	1.23	0.70	0.11	0	0	0	0	0	2.94	
Louisa	3↘	6↘	12↘	18↘	20↘	26↘	30↘	20↘	16↘	17↘	24↘	13↘	30	Louisa	0	0.09	0.70	1.50	0.35	0.03	0	0	0	0	0	2.67	
Norfolk / Portsmouth	7↘	12↘	23↘	39↘	37↘	30↘	35↘	20↘	21↘	24↘	30↘	21↘	39	Norfolk / Portsmouth	0	0.07	0.85	1.20	0.74	0.10	0	0	0	0	0	2.96	
Ocean City	12↘	15↘	20↘	29↘	51↗	37↗	41↗	23↘	22↘	28↘	35↘	28↘	51	Ocean City	0	0.01	0.33	0.98	0.56	0.27	0.01	0	0.01	0	0	2.17	
Petersburg	3↘	7↘	15↘	24↘	21↘	26↘	30↘	20↘	17↘	17↘	25↘	14↘	30	Petersburg	0	0.15	0.84	1.15	0.47	0.03	0	0	0	0	0	2.64	
Richmond	5↘	7↘	15↘	23↘	22↘	28↘	31↘	20↘	16↘	17↘	29↘	15↘	31	Richmond	0	0.11	0.81	1.22	0.56	0.03	0	0	0	0	0	2.73	
Salisbury	5↘	10↘	18↘	26↘	44↗	29↗	41↗	21↘	15↘	22↘	33↘	23↘	44	Salisbury	0	0.02	0.37	1.16	0.52	0.25	0.01	0	0.01	0	0	2.34	
South Hill	3↘	7↘	17↘	24↘	21↘	26↘	30↘	18↘	21↘	21↘	24↘	14↘	30	South Hill	0.01	0.27	0.94	0.93	0.26	0.02	0	0	0	0	0	2.43	
Suffolk	3↘	6↘	21↘	36↘	30↘	28↘	32↘	18↘	18↘	20↘	26↘	15↘	36	Suffolk	0	0.13	0.89	1.23	0.62	0.09	0	0	0	0	0	2.96	
Tappahannock	2↘	5↘	14↘	22↘	26↘	23↘	31↘	17↘	15↘	16↘	28↘	17↘	31	Tappahannock	0	0.03	0.64	1.29	0.72	0.08	0	0	0	0	0	2.76	
Virginia Beach	10↘	16↘	25↘	41↘	44↘	35↘	37↘	22↘	24↘	30↘	31↘	25↘	44	Virginia Beach	0	0.05	0.84	1.07	0.47	0.10	0	0	0.01	0	0	2.54	
Williamsburg	2↘	7↘	18↘	31↘	30↘	23↘	32↘	18↘	17↘	18↘	28↘	16↘	32	Williamsburg	0	0.06	0.81	1.29	0.72	0.09	0	0	0	0	0	2.97	
*Table values in inches																											

\*Table values in mph  
\*\*Created: 4 pm EST Sat 12/16/2023

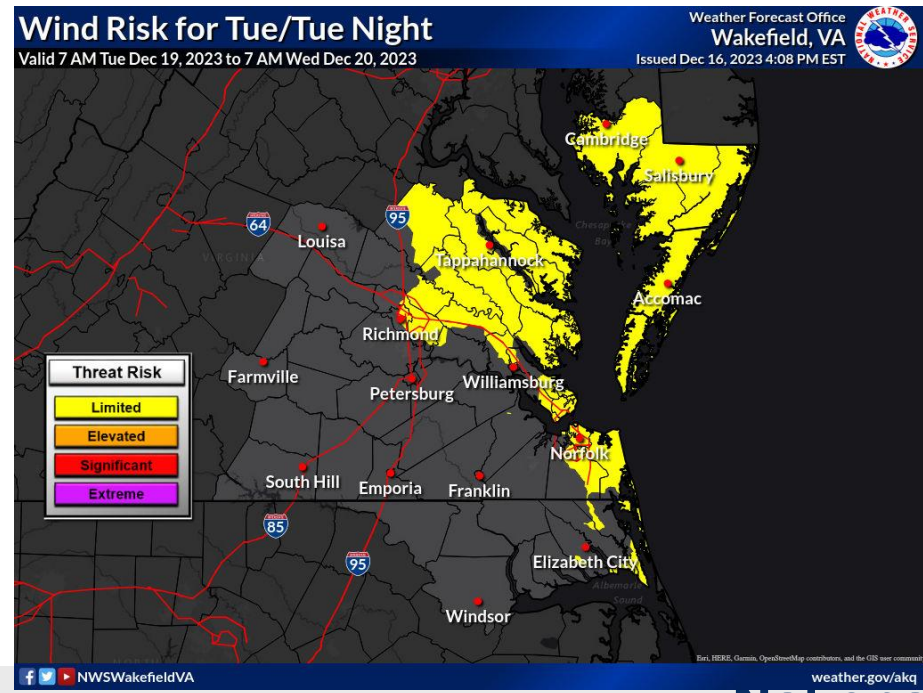
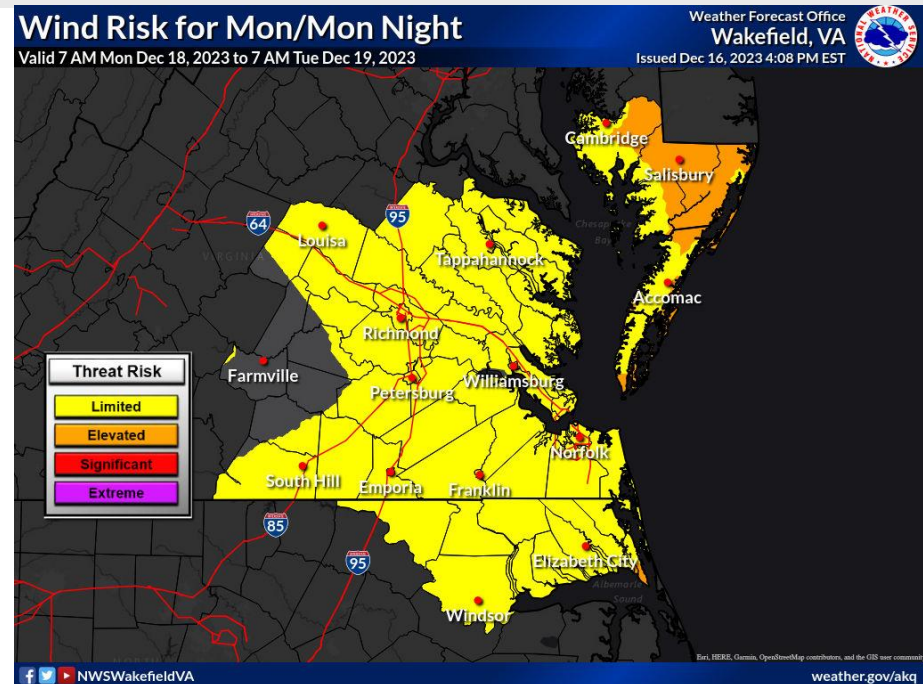
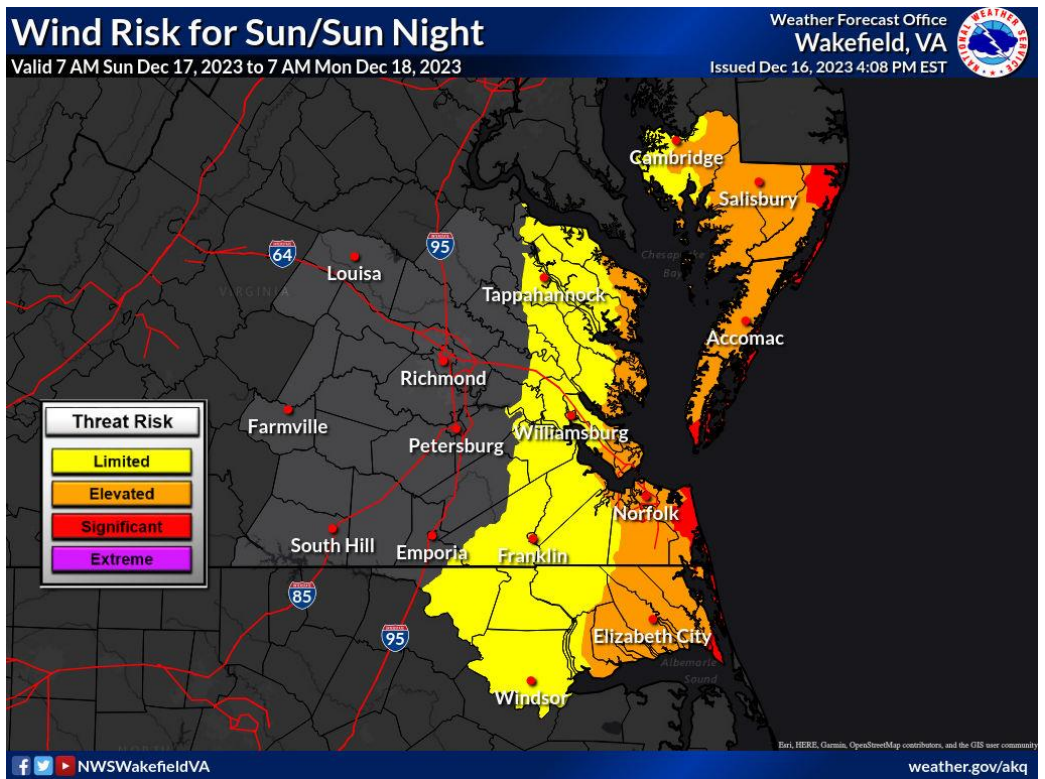
\*Table values in inches  
\*\*Created: 4 pm EST Sat 12/16/2023  
\*\*\*Values are accumulations over the period beginning at the time shown.





# 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.

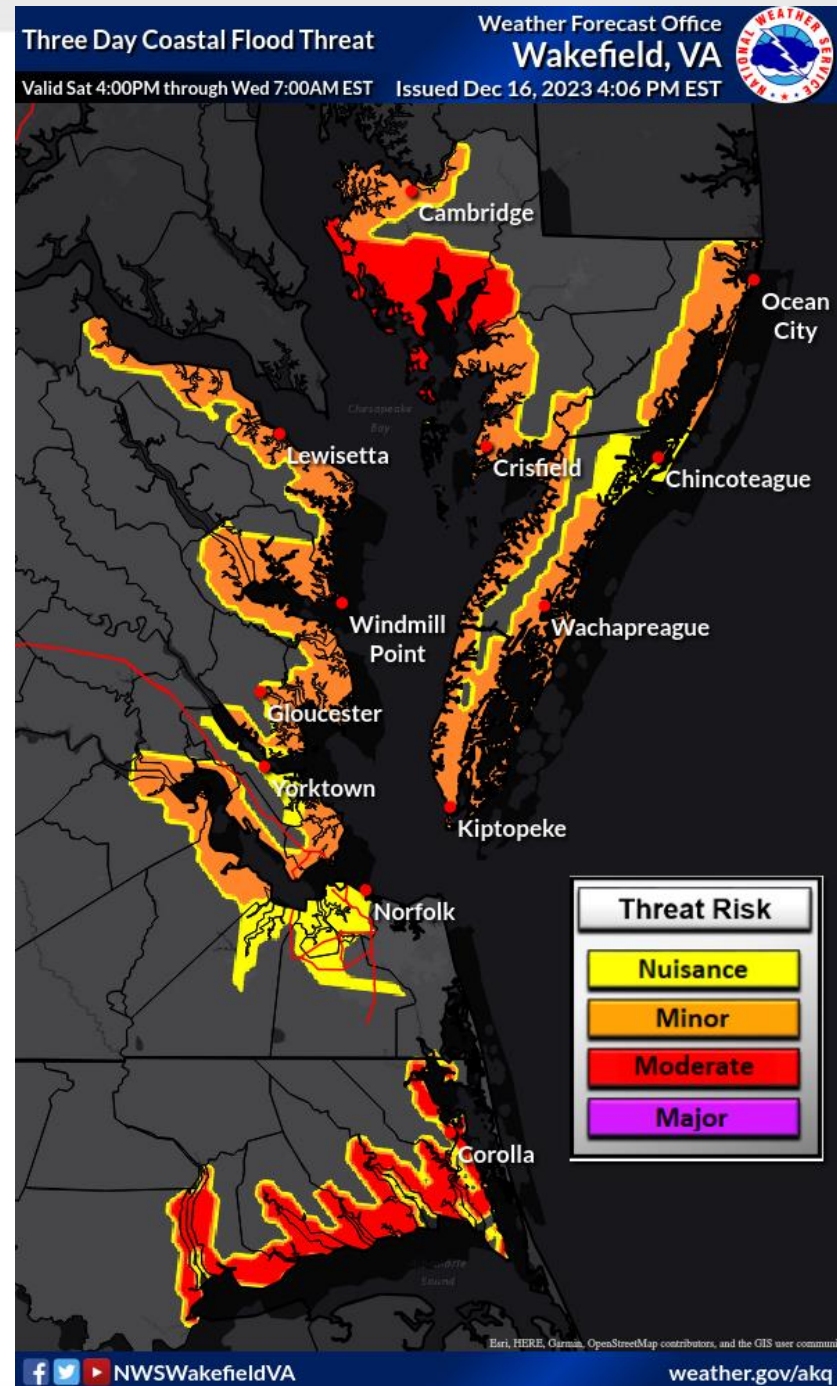






# Tidal Flooding Overview

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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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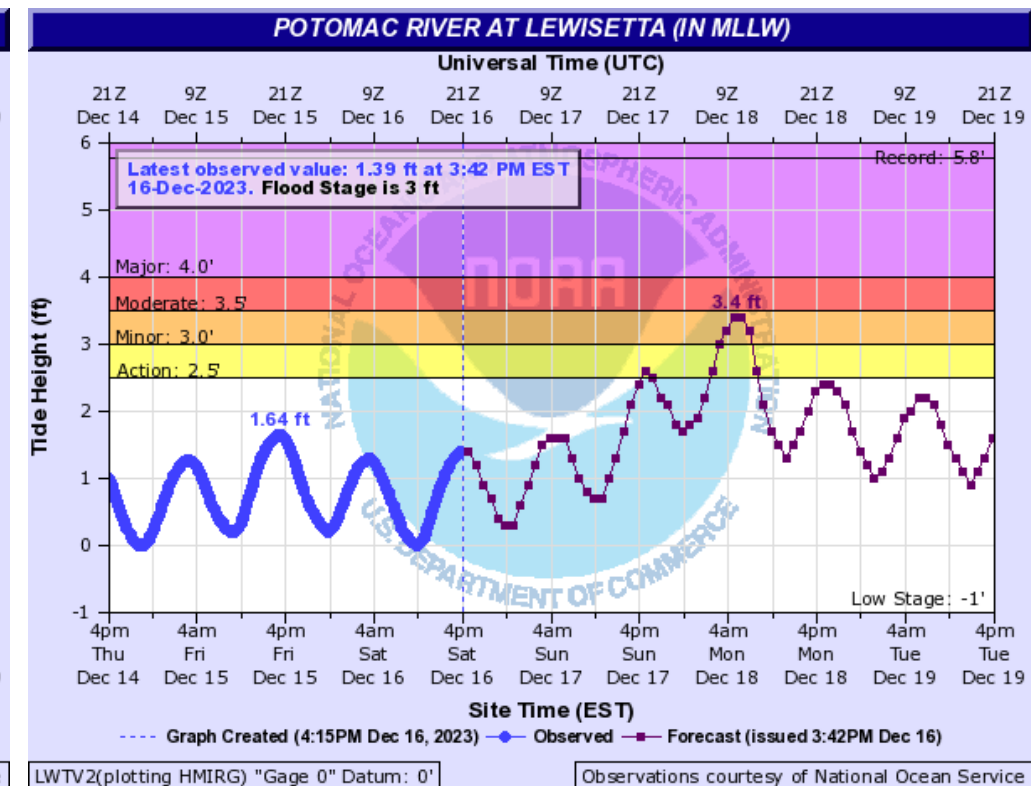
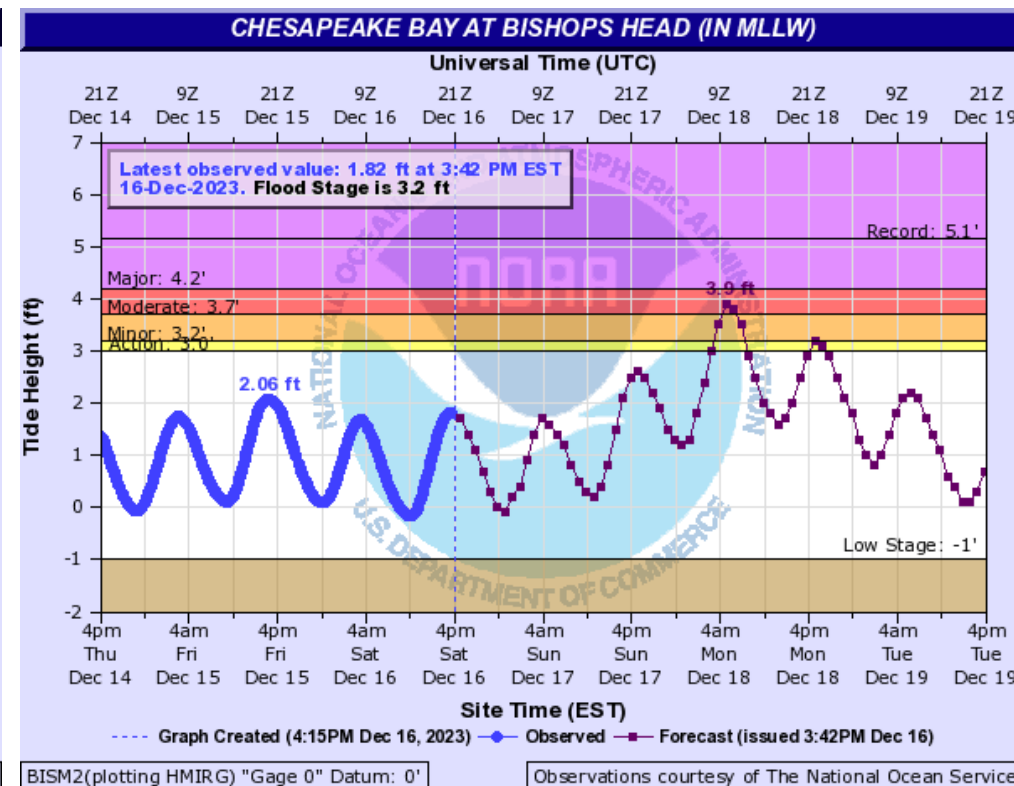
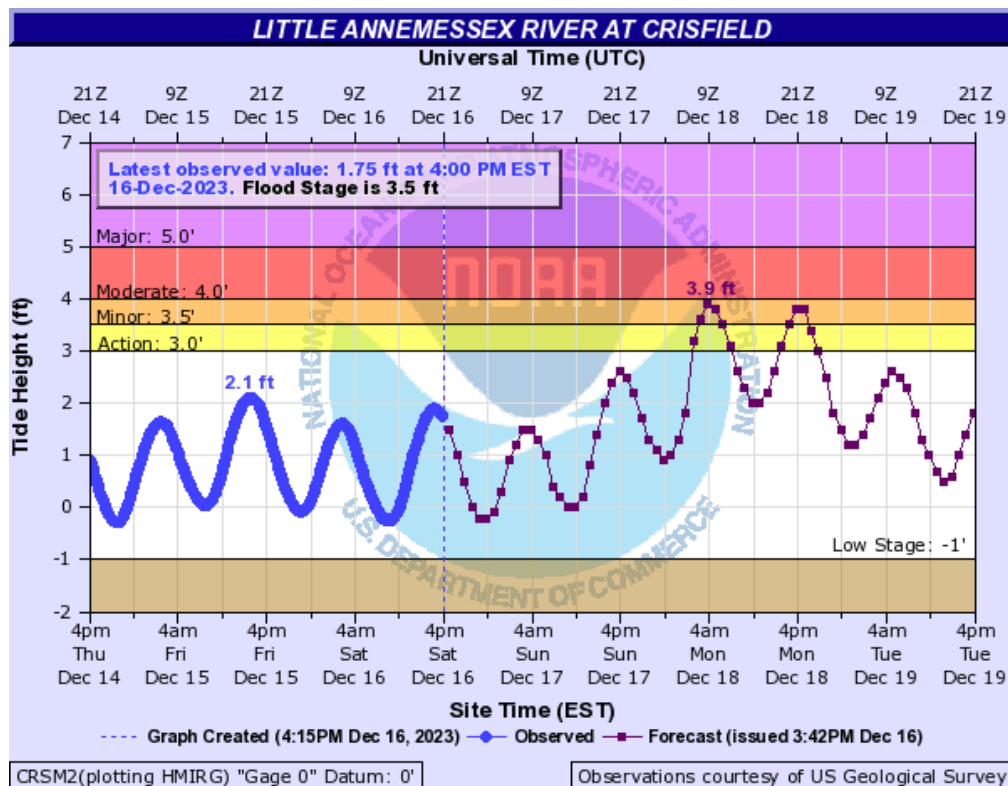




# Tidal Overview - Upper Bay

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](#)



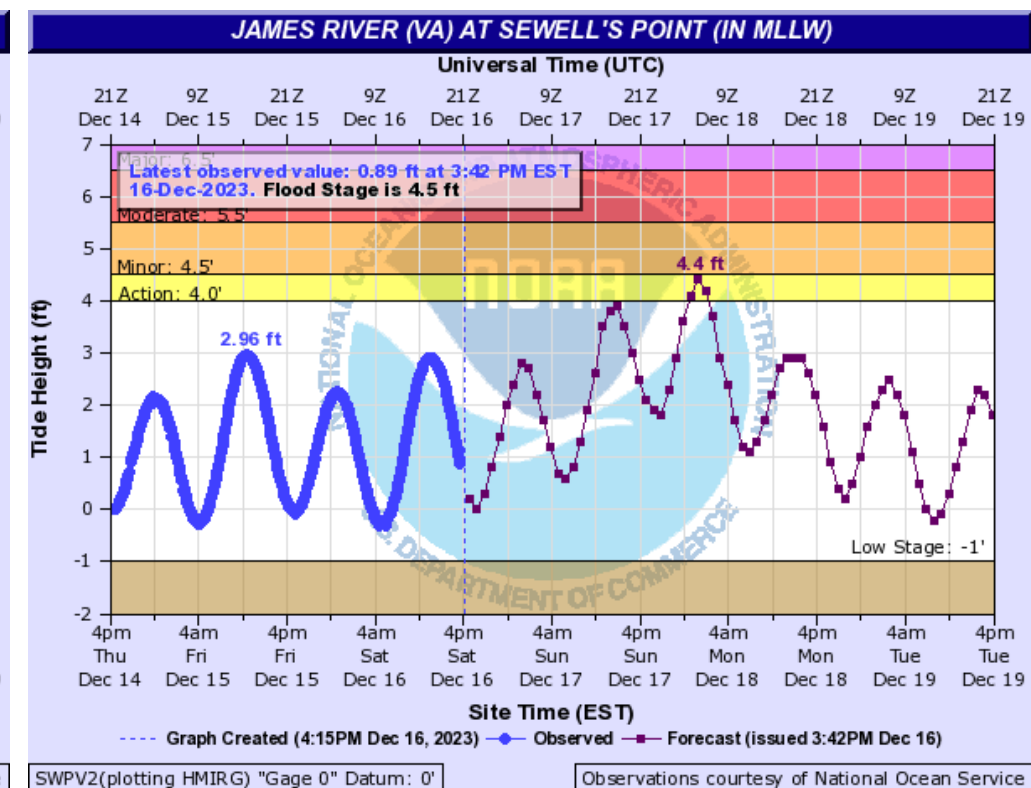
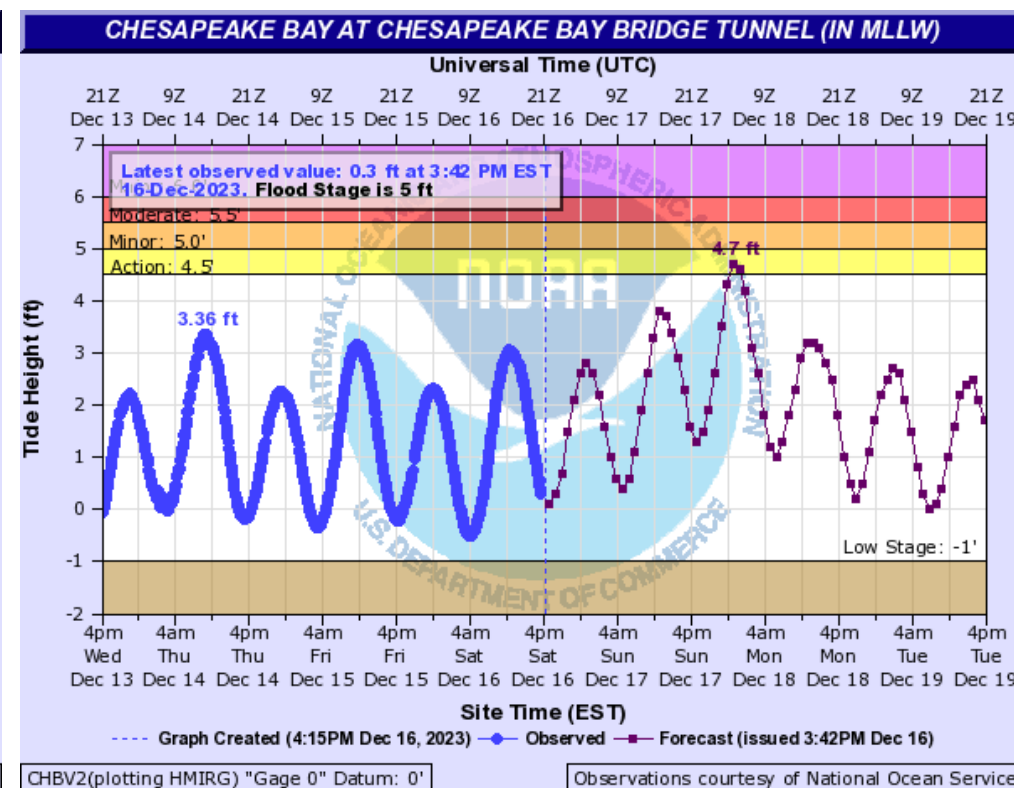
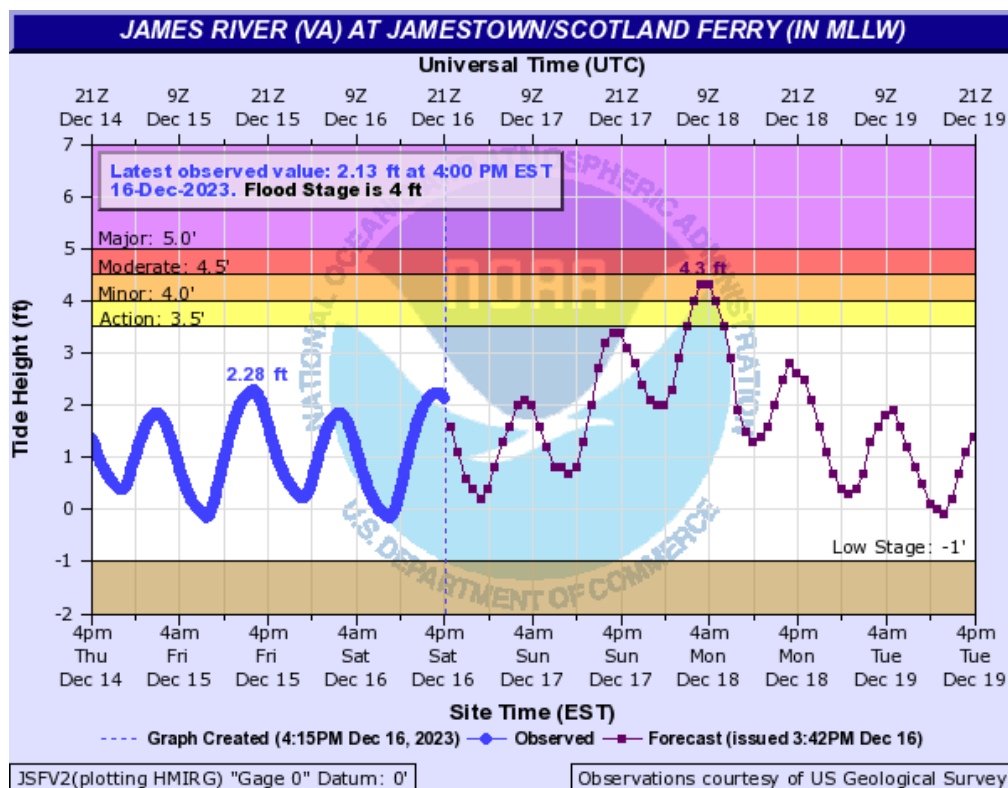




# Tidal Overview - Lower Bay/James

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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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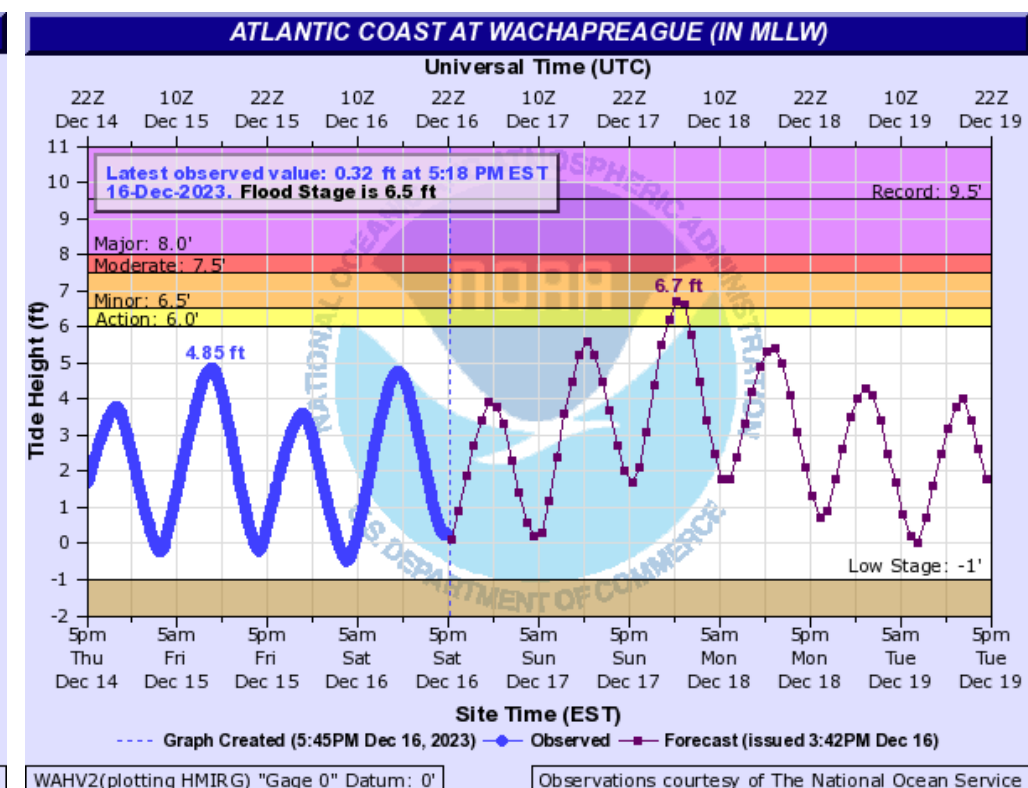
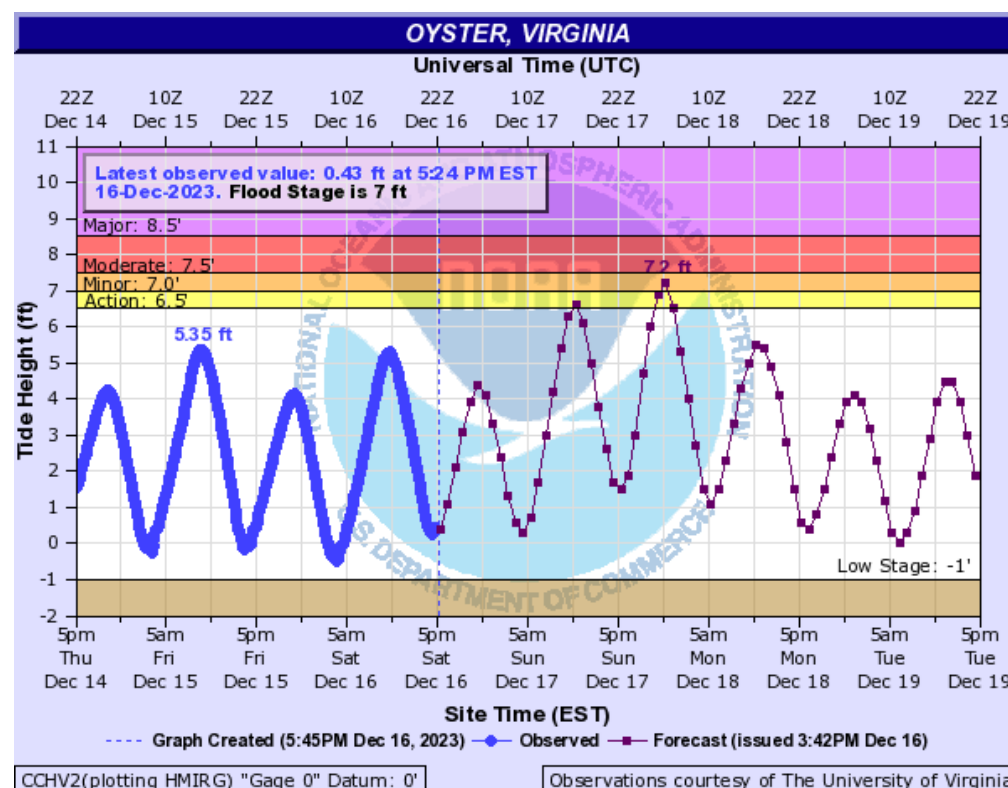
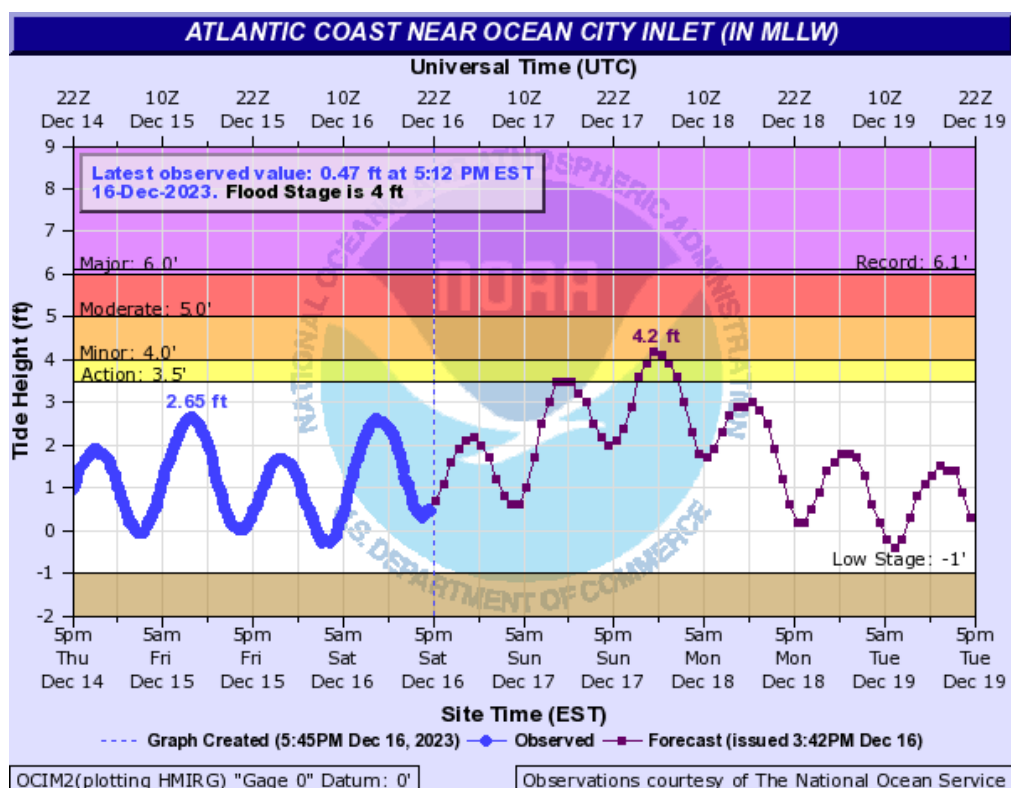




# Tidal Overview - Ocean

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.

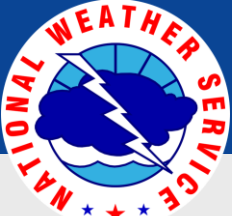
[Coastal Flood Webpage](#)



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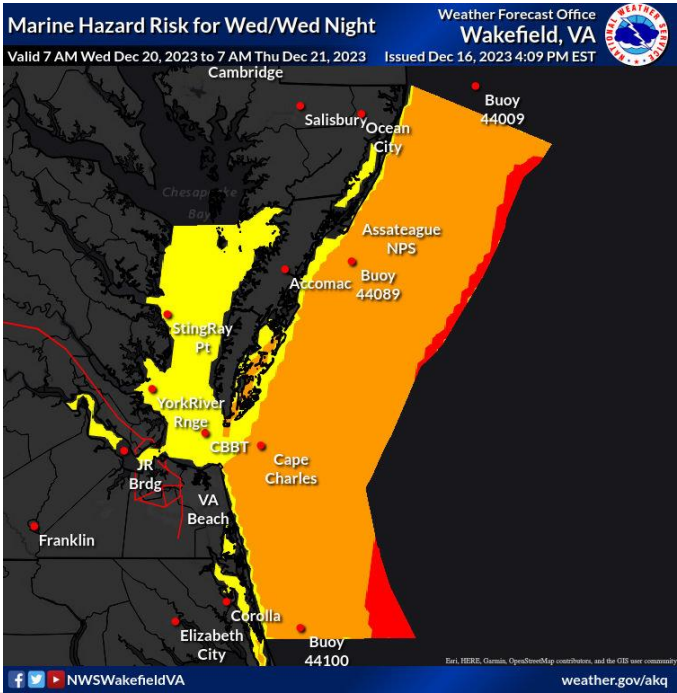
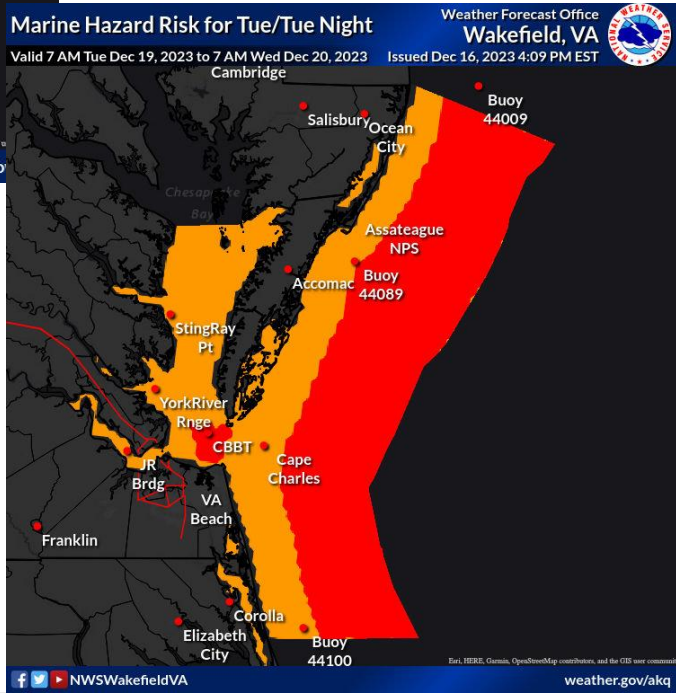
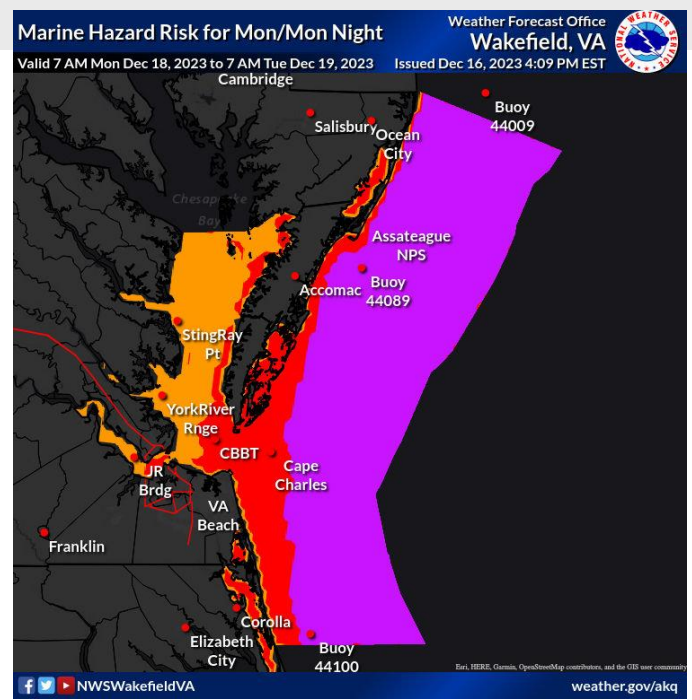
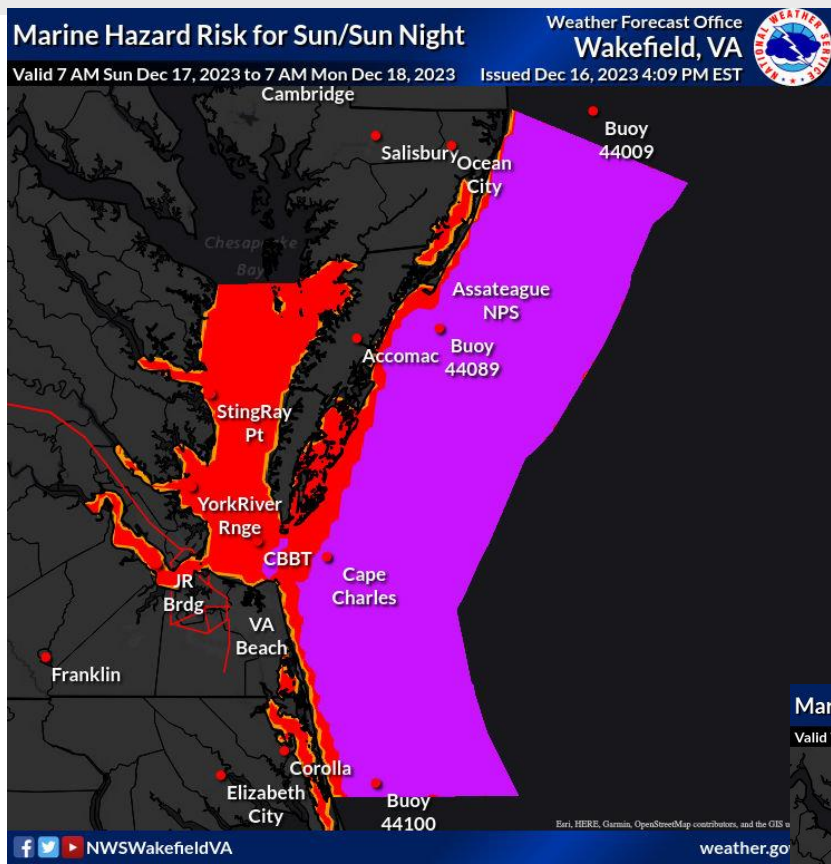
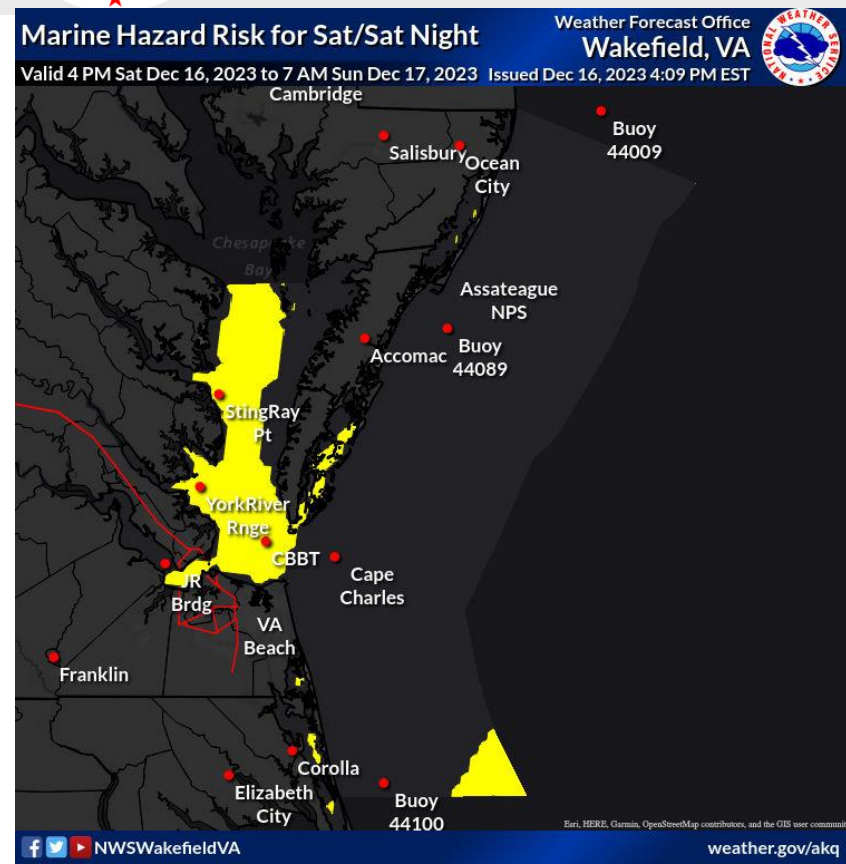
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# Marine Threat Potential - Next 5 Days

December 16, 2023  
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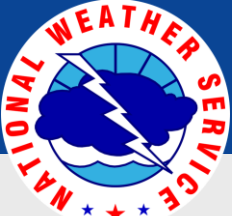
Limited	Wind Gusts $\geq$ 20 knots (15 kt Bay & rivers) and/or Waves $\geq$ 4 feet (2 ft Bay & rivers).
Elevated	Wind Gusts $\geq$ 25 knots (20 kt Bay & rivers) and/or Waves $\geq$ 5 feet ( $\geq$ 4 ft Bay & rivers).
Significant	Wind Gusts $\geq$ 34 knots and/or Waves $\geq$ 8 feet ( $\geq$ 5 ft Bay & 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
CBBT	16↙	20↙	34↙	44↙	36↘	34→	32→	25→	30→	31→	28→	27→
Cape Henry	16↙	21↙	34↙	45↙	39↘	34→	32→	25→	30→	31→	29→	28→
Chesapeake Light	15↙	20↙	34↙	47↙	45↘	37→	35→	25→	30→	32→	30→	29→
Chincoteague Shoal	15↙	17↙	28↙	43↙	44↘	35→	35→	22→	27→	30→	31→	29→
Duck, NC	15↙	22↙	36↙	46↙	41↘	34→	31→	21→	28→	29→	27→	23→
Fenwick Shoal	13↙	17↙	22↙	43↙	48↘	38→	36→	24→	24→	31→	31→	27→
HRBT	13↙	18↙	31↙	38↙	34↘	34→	32→	21→	26→	26→	26→	21→
JRB	12↙	17↙	30↙	38↙	32↘	32→	31→	22→	25→	26→	26→	20→
New Point Comfort	13↙	17↙	29↙	41↙	34↘	33→	31→	22→	27→	27→	27→	25→
Parramore Banks	14↙	17↙	29↙	44↙	42↘	35→	34→	22→	28→	30→	32→	29→
Rappahannock Light	12↙	17↙	26↙	39↙	35↘	33→	31→	21→	28→	29→	30→	27→
Tangier	13↙	17↙	26↙	39↙	36↘	33→	32→	21→	30→	32→	32→	30→
Thimble Shoal	16↙	20↙	33↙	42↙	34↘	33→	31→	25→	30→	30→	27→	26→

\*Table values in kt  
\*\*Created: 4 pm EST Sat 12/16/2023  
\*\*\*Values are maximums over the period beginning at the time shown.

## Wave Height Forecast

	12/17 Sun				12/18 Mon				12/19 Tue			
	12am	6am	12pm	6pm	12am	6am	12pm	6pm	12am	6am	12pm	6pm
CBBT	2.0	3.0	6.0	7.0	8.0	6.0	5.0	5.0	5.0	5.0	4.0	4.0
Cape Henry	2.0	3.0	7.0	13.0	13.0	10.0	9.0	7.0	7.0	7.0	6.0	6.0
Chesapeake Light	3.0	4.0	9.0	16.0	18.0	14.0	11.0	9.0	9.0	8.0	8.0	7.0
Chincoteague Shoal	3.0	3.0	6.0	14.0	16.0	14.0	13.0	10.0	8.0	7.0	7.0	6.0
Duck, NC	3.0	4.0	8.0	13.0	13.0	11.0	8.0	7.0	7.0	6.0	6.0	6.0
Fenwick Shoal	3.0	3.0	5.0	12.0	16.0	16.0	14.0	12.0	10.0	8.0	8.0	7.0
HRBT	2.0	3.0	4.0	4.0	4.0	3.0	3.0	2.0	2.0	3.0	3.0	2.0
JRB	1.0	2.0	3.0	3.0	3.0	3.0	3.0	2.0	2.0	2.0	2.0	2.0
New Point Comfort	2.0	3.0	4.0	6.0	6.0	4.0	3.0	3.0	3.0	3.0	2.0	2.0
Parramore Banks	3.0	4.0	6.0	14.0	15.0	13.0	12.0	10.0	8.0	7.0	7.0	6.0
Rappahannock Light	2.0	2.0	3.0	5.0	5.0	5.0	4.0	4.0	4.0	4.0	4.0	4.0
Tangier	2.0	2.0	3.0	4.0	4.0	4.0	4.0	3.0	4.0	4.0	4.0	4.0
Thimble Shoal	2.0	3.0	5.0	6.0	7.0	6.0	4.0	4.0	5.0	5.0	4.0	4.0

\*Table values in feet  
\*\*Created: 4 pm EST Sat 12/16/2023  
\*\*\*Values are maximums over the period beginning at the time shown.

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





# Key Messages

December 16, 2023  
5:53 PM

- 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 expanded to include the western shore of the Chesapeake Bay. 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  
5:53 PM

For NWS Wakefield, Virginia



## Briefing Webpage

→ [NWS Wakefield Briefing](#)



## Next Briefing

- By 9:00 AM EST, Sunday, December 17
- Method: 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)

