

Weekend Storm Briefing

March 22, 2024
8:43 AM

Prepared by National Weather Service Wakefield, VA

Decision Support Briefing #2

→ As of 9:00 AM EDT
Friday, March 22, 2024

NEW

Important Updates

- Gale Warnings in effect for the lower Chesapeake Bay, Currituck Sound and coastal waters south of Parramore Island from Saturday morning into Sunday night.
- Gale Watches remain in effect for the remainder of the local marine area.



Disclaimer: Information may become outdated after briefing time.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



National Oceanic and
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National Weather Service
Wakefield, VA



Key Messages

March 22, 2024
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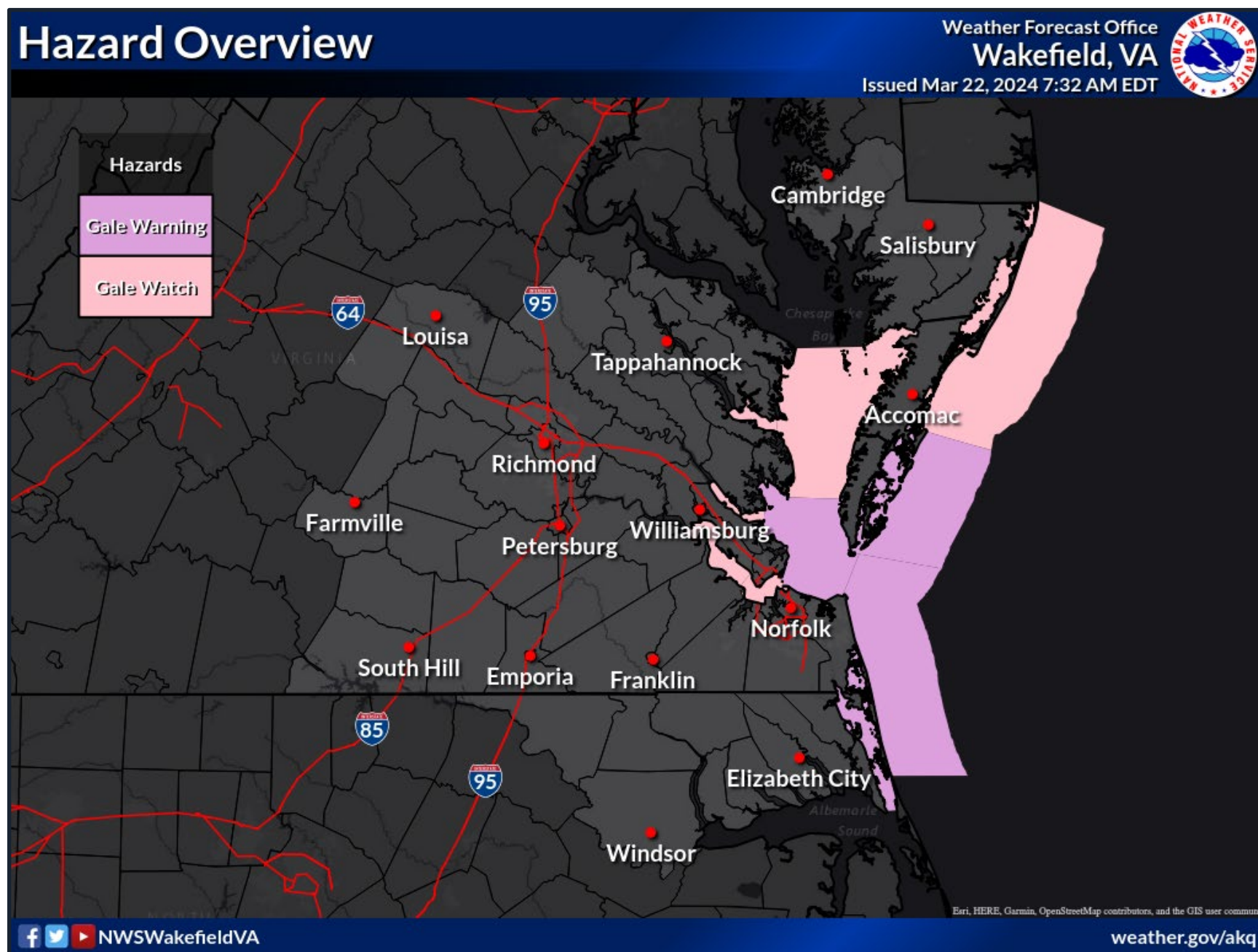
- Strong wind gusts of 40-50 mph are expected Saturday morning (along the coast) and then Saturday night into Sunday for much of eastern Virginia, coastal northeast North Carolina and lower Maryland.
- Heavy rain is expected tonight and Saturday, with a widespread total of 1.50-2.50 inches”.
- Heavy rain and gusty southwest winds could result in more widespread flooding over the southern end of VA Beach around Pungo and Sandbridge as well as along the Currituck Sound and in Elizabeth City, NC Saturday.
- Minor coastal flooding will be possible across the Bay and tidal rivers Saturday through Monday.
- **Marine** - Gale Warnings begin for the southern waters early Saturday morning. Gale Watches continue for the remaining zones for strong N winds behind the front Saturday night into Sunday. High end Gale Conditions are expected.





Hazard Overview

March 22, 2024
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- Gale Warnings and Watches are in effect for the ocean and all of the Bay and rivers.
- This will be a longer duration wind event with southeast winds increasing late tonight, then becoming northwest late Saturday and lasting well into Sunday.
- See www.weather.gov/akq for the latest information





High Wind Potential

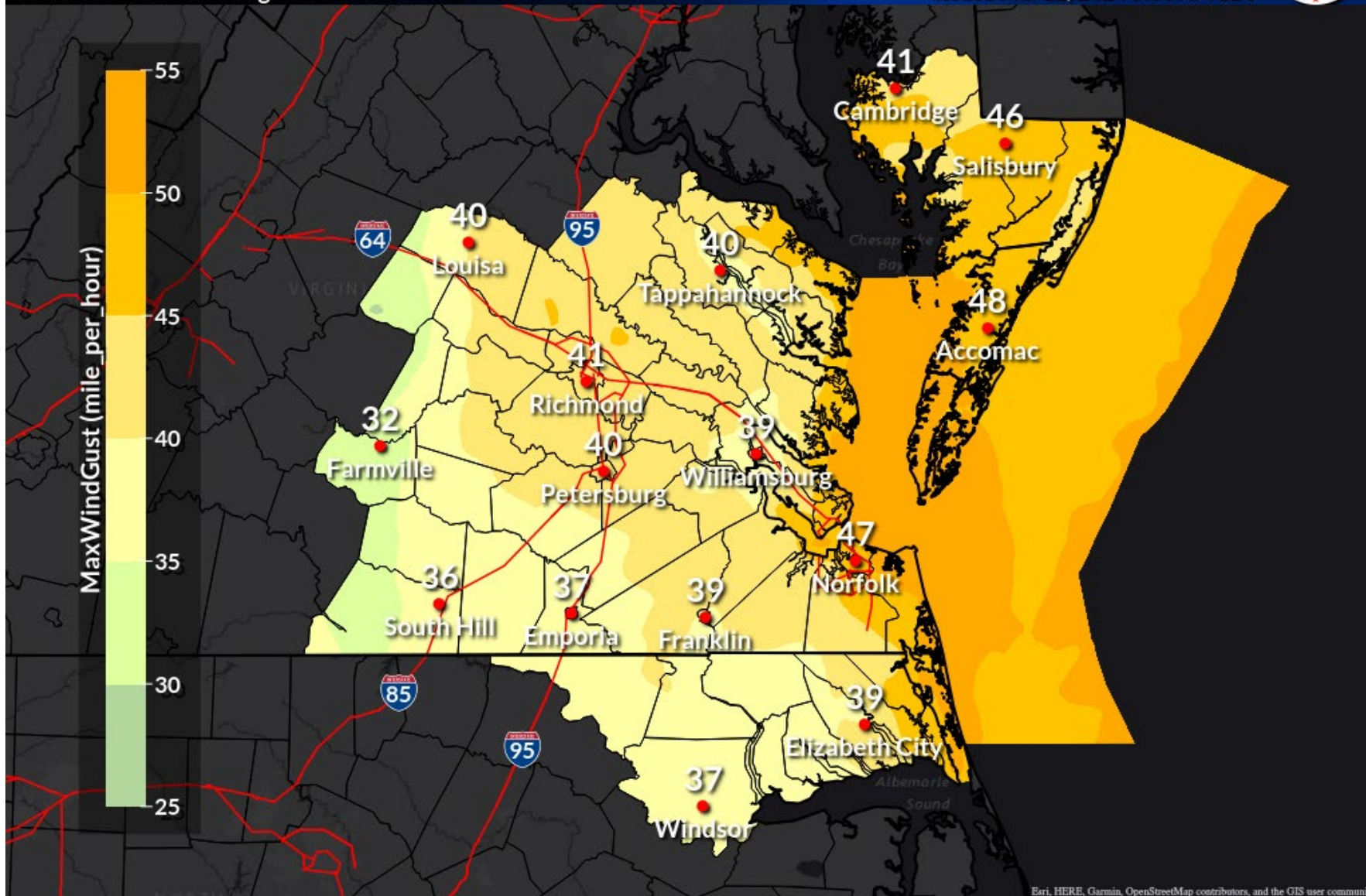
March 22, 2024
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Max Wind Gust Through 72 Hrs

Valid Fri 8:00AM through Mon 8:00PM EDT

Weather Forecast Office
Wakefield, VA

Issued Mar 22, 2024 5:30 AM EDT



- South winds will gusts 40 -45 mph along the coast Saturday morning.
- North winds will gust 40 -50 mph across much of eastern Virginia, coastal northeast North Carolina and lower Maryland Saturday night into Sunday (strongest at the coast).
- A Wind Advisory will be likely.

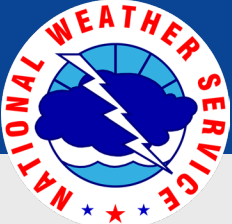
f t NWSWakefieldVA

weather.gov/akq



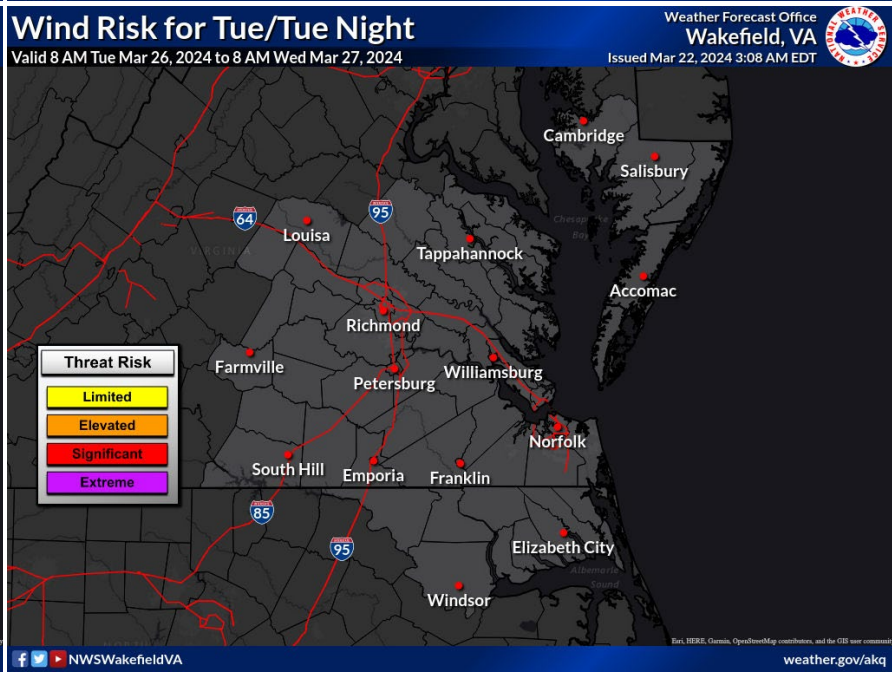
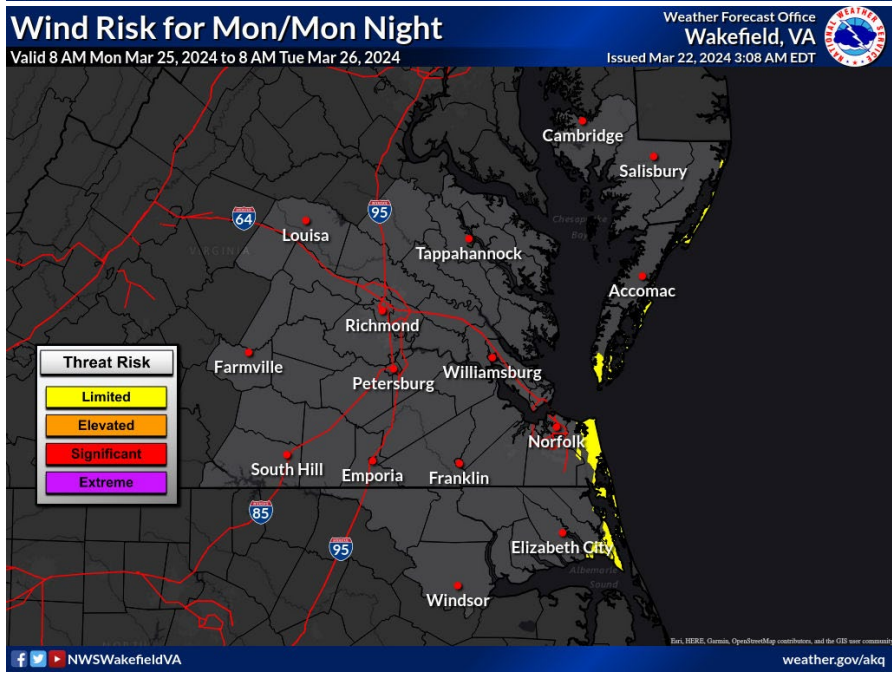
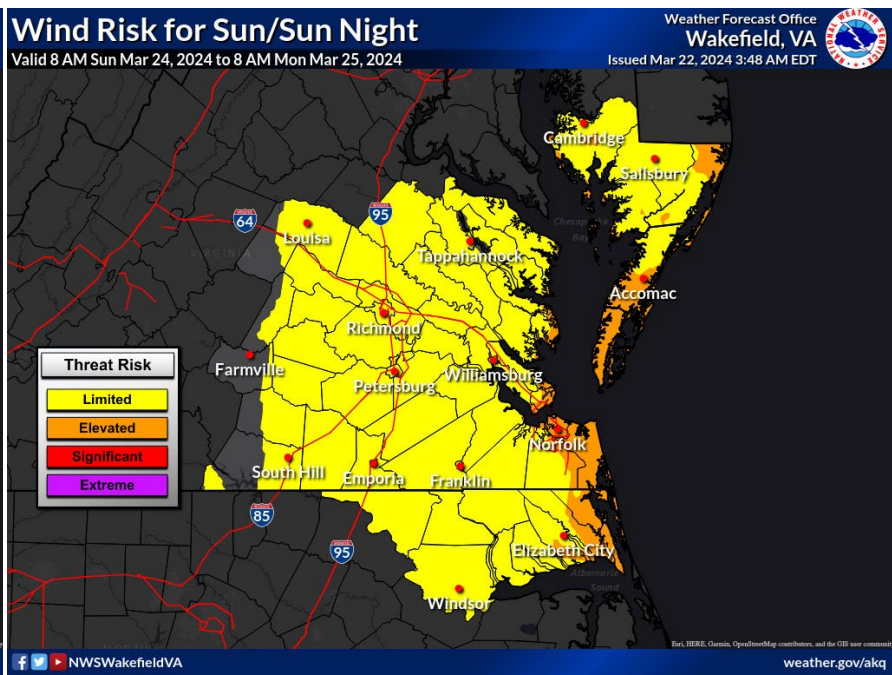
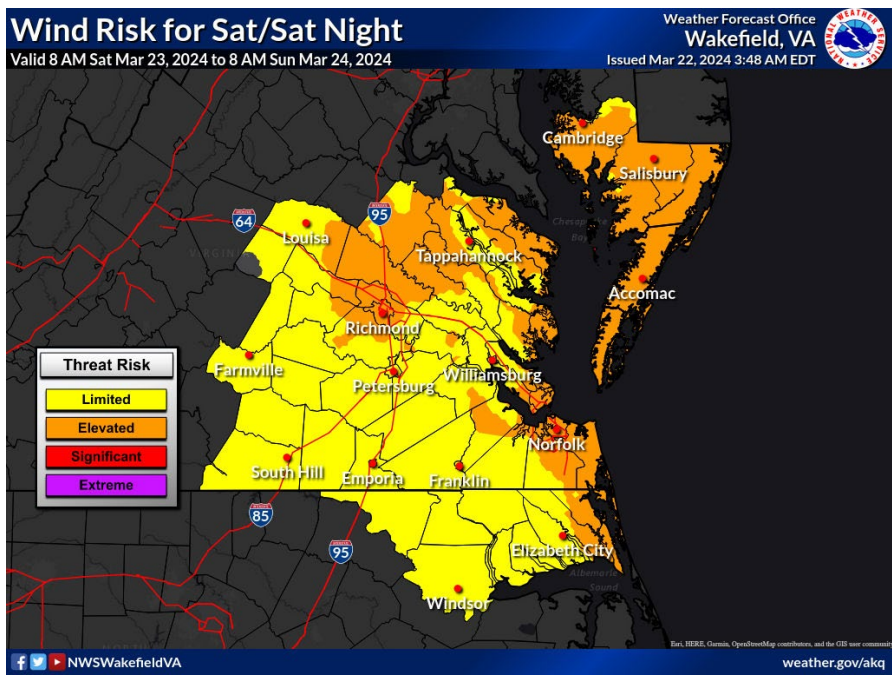
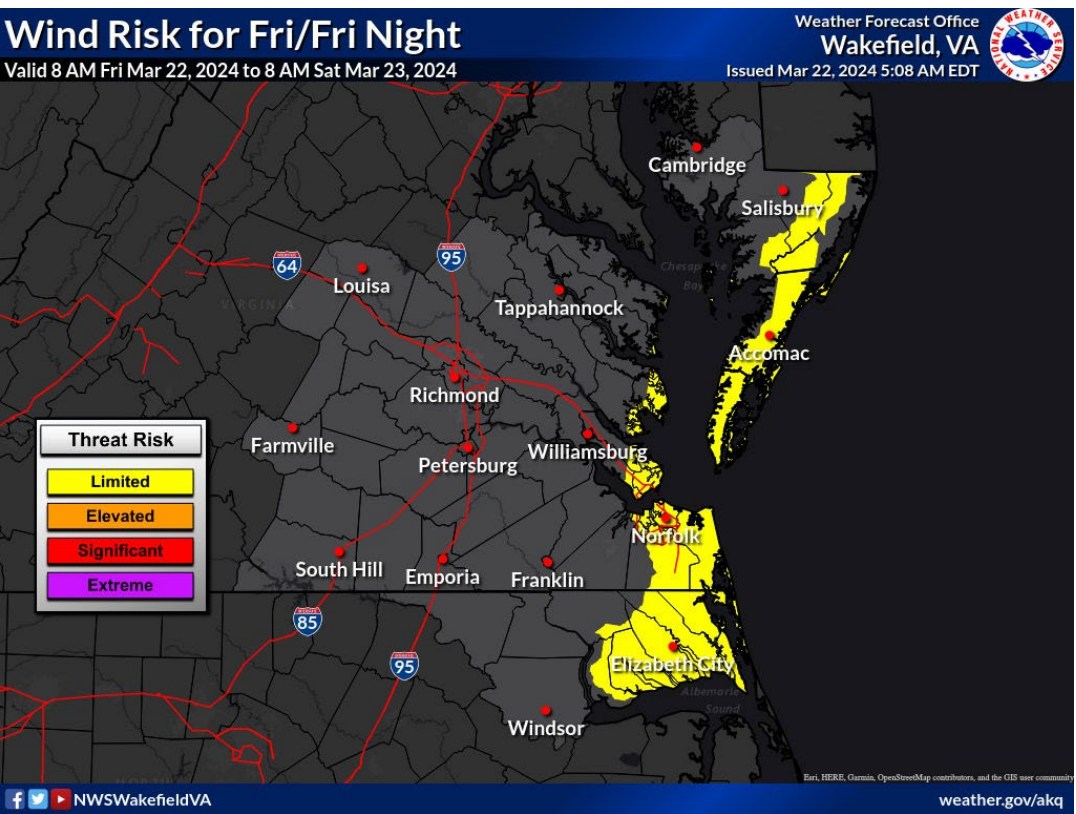
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Wakefield, VA



High Wind Potential - Next 5 Days

March 22, 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.

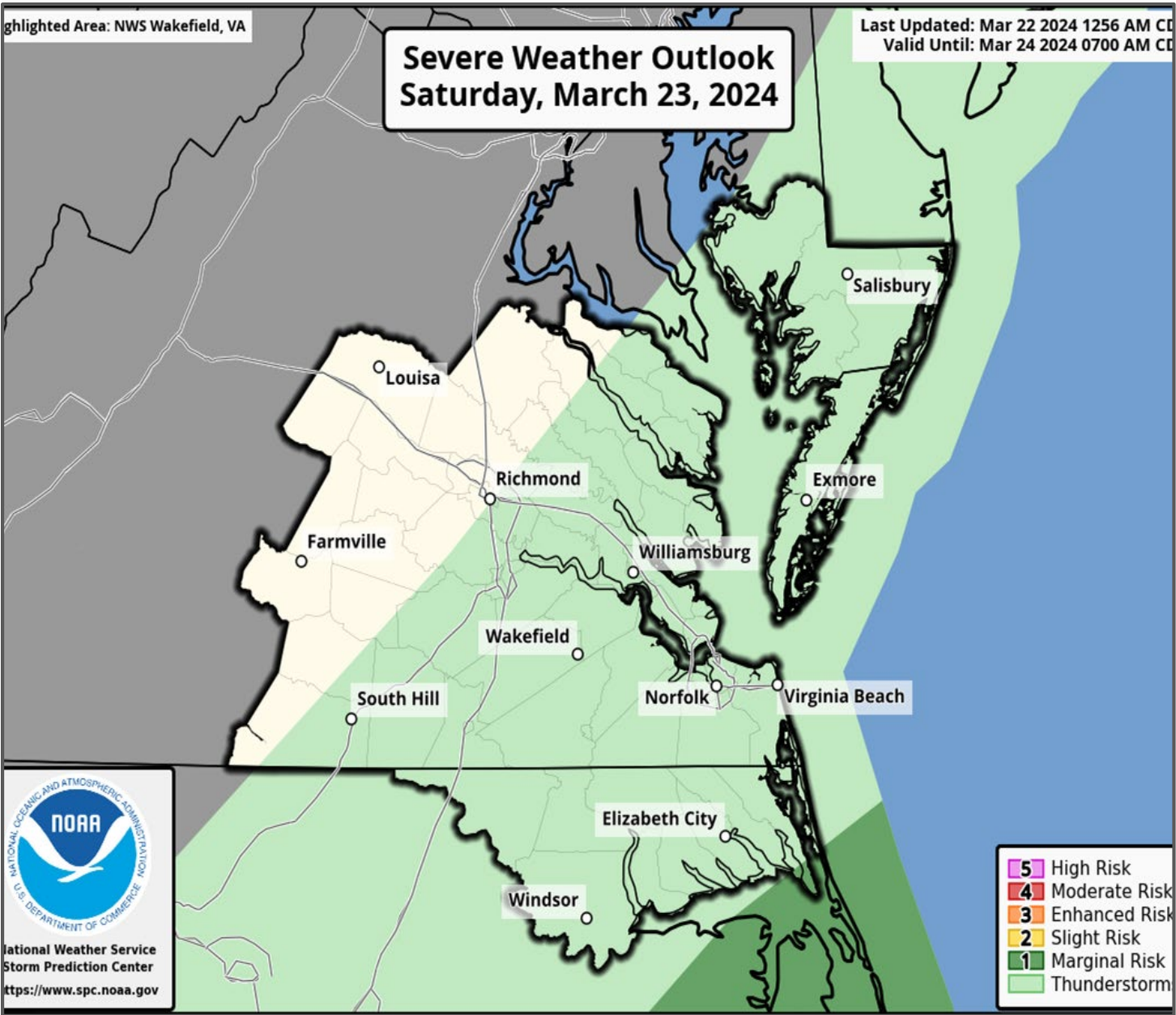




Severe Thunderstorm Potential

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Saturday



- A few thunderstorms will be possible across southeast VA and northeast NC Saturday morning.
- There is a marginal risk for a severe thunderstorm Saturday afternoon just southeast of the area. There is the potential for some of these stronger storms to come farther north into southeast VA and northeast NC.
- Damaging winds and heavy rain will be the main threats with the strongest storms.

<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

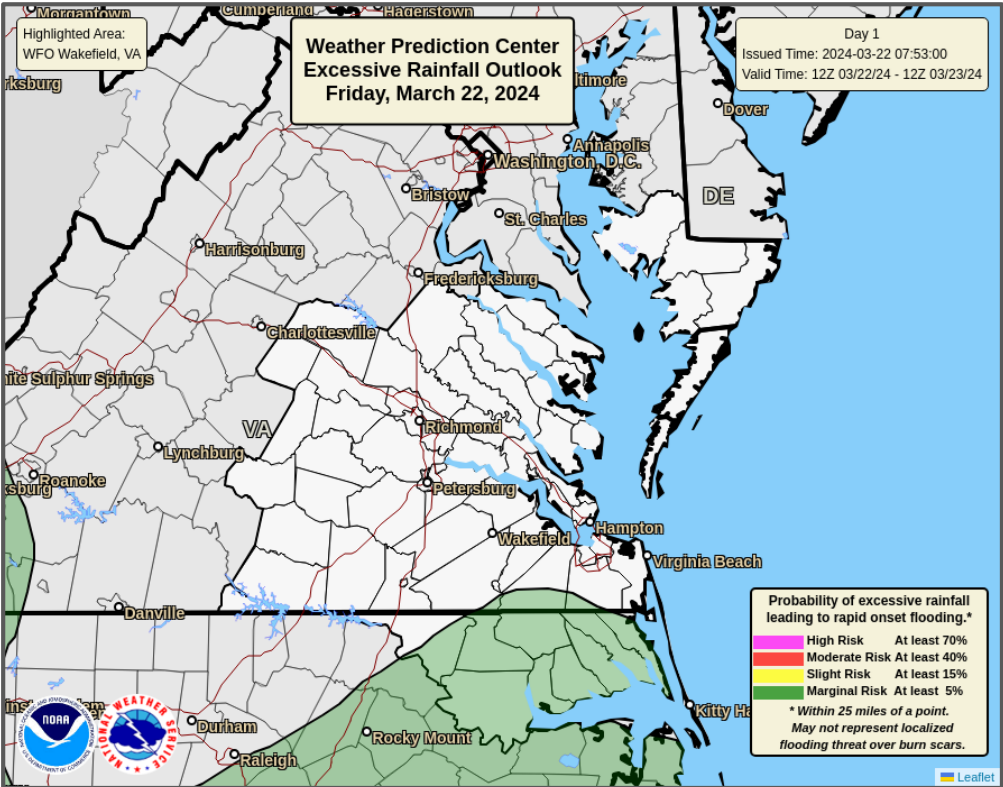




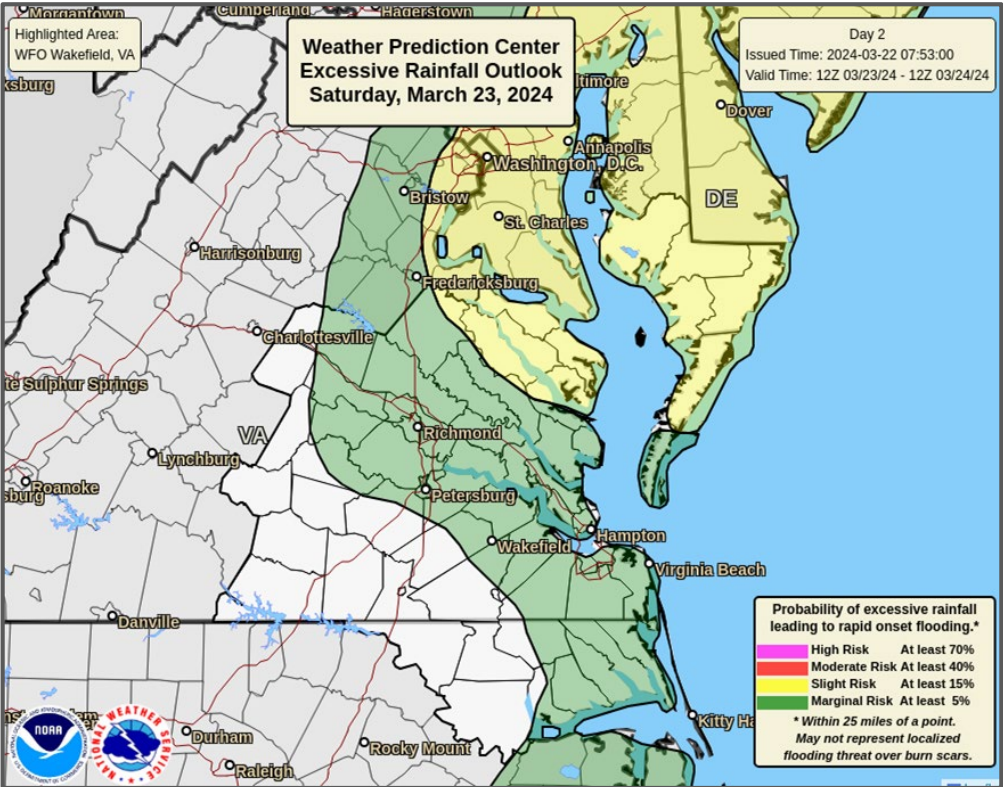
Excessive Rainfall Outlook

March 22, 2024
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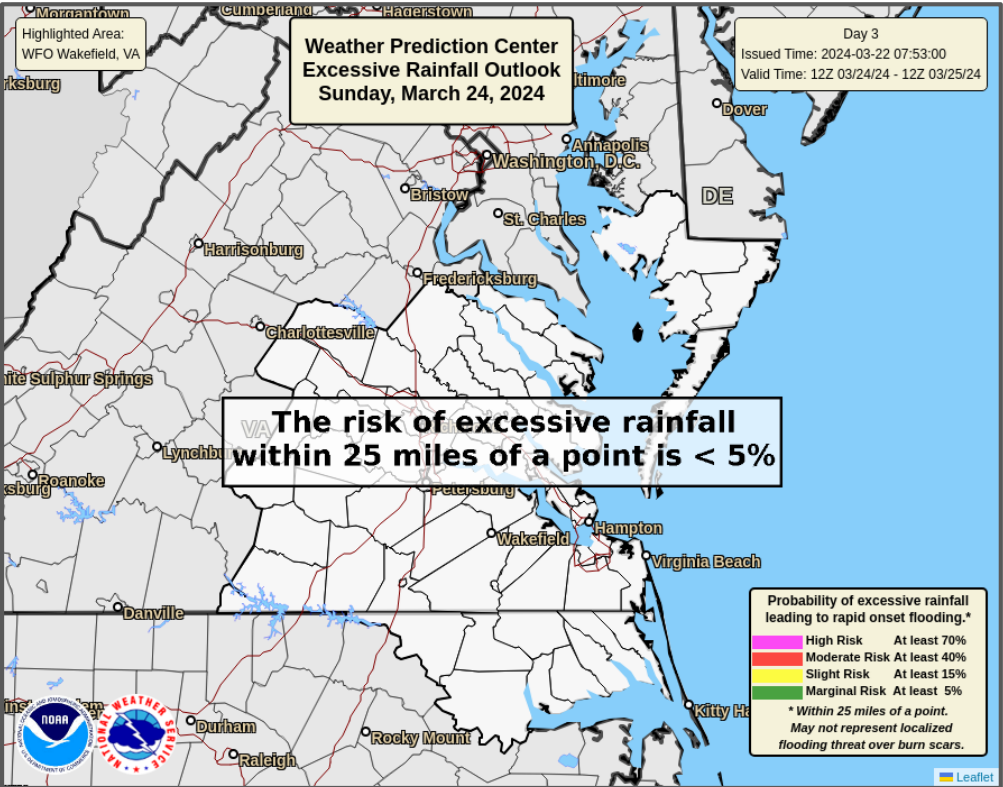
Today / Tonight



Saturday



Sunday



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

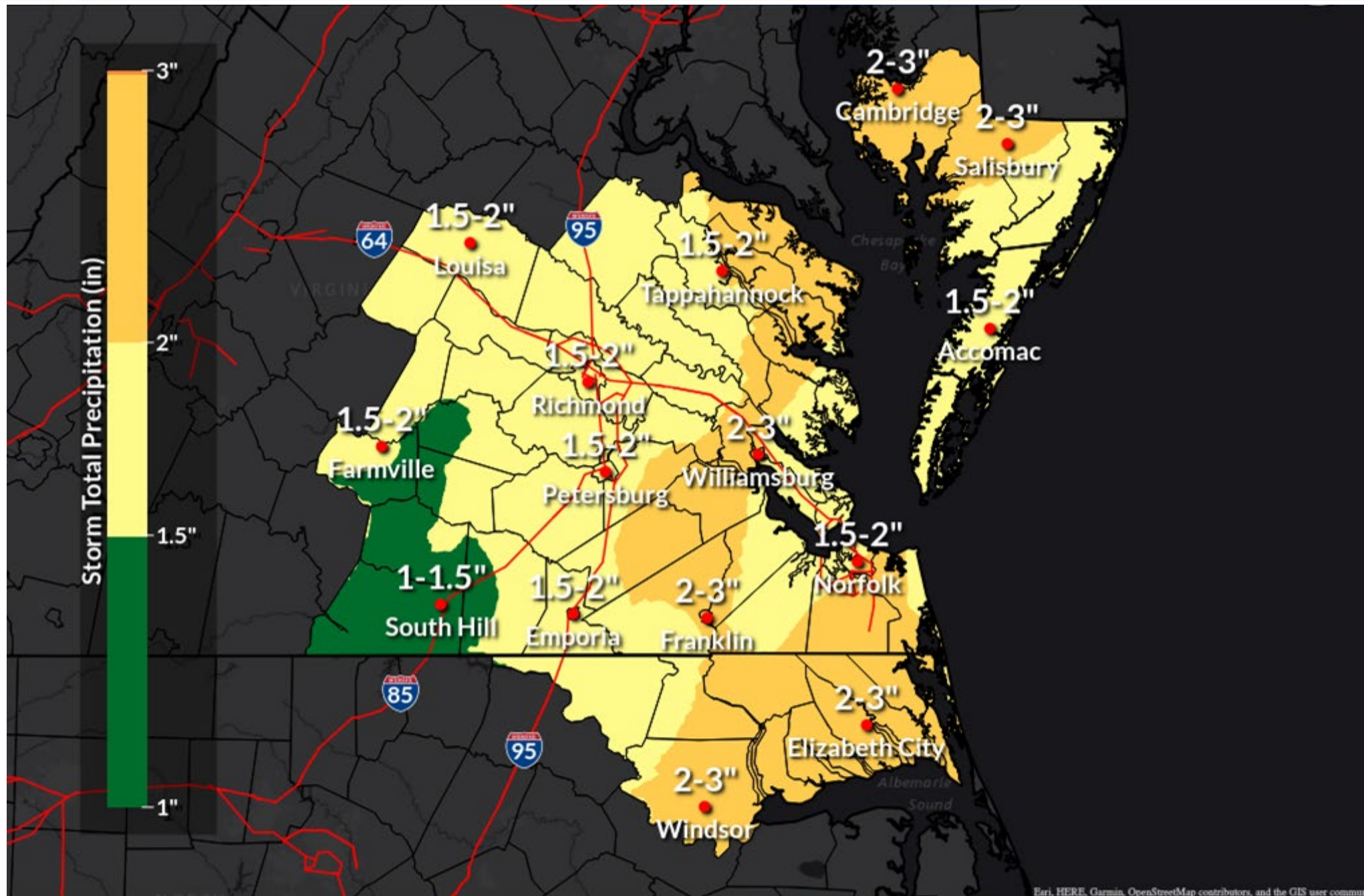
- Due to heavy rain on Saturday, localized instances of flash flooding will be possible across eastern Virginia, coastal northeast North Carolina and the lower Maryland Eastern Shore.





Total Precipitation - Next 72 Hours

March 22, 2024
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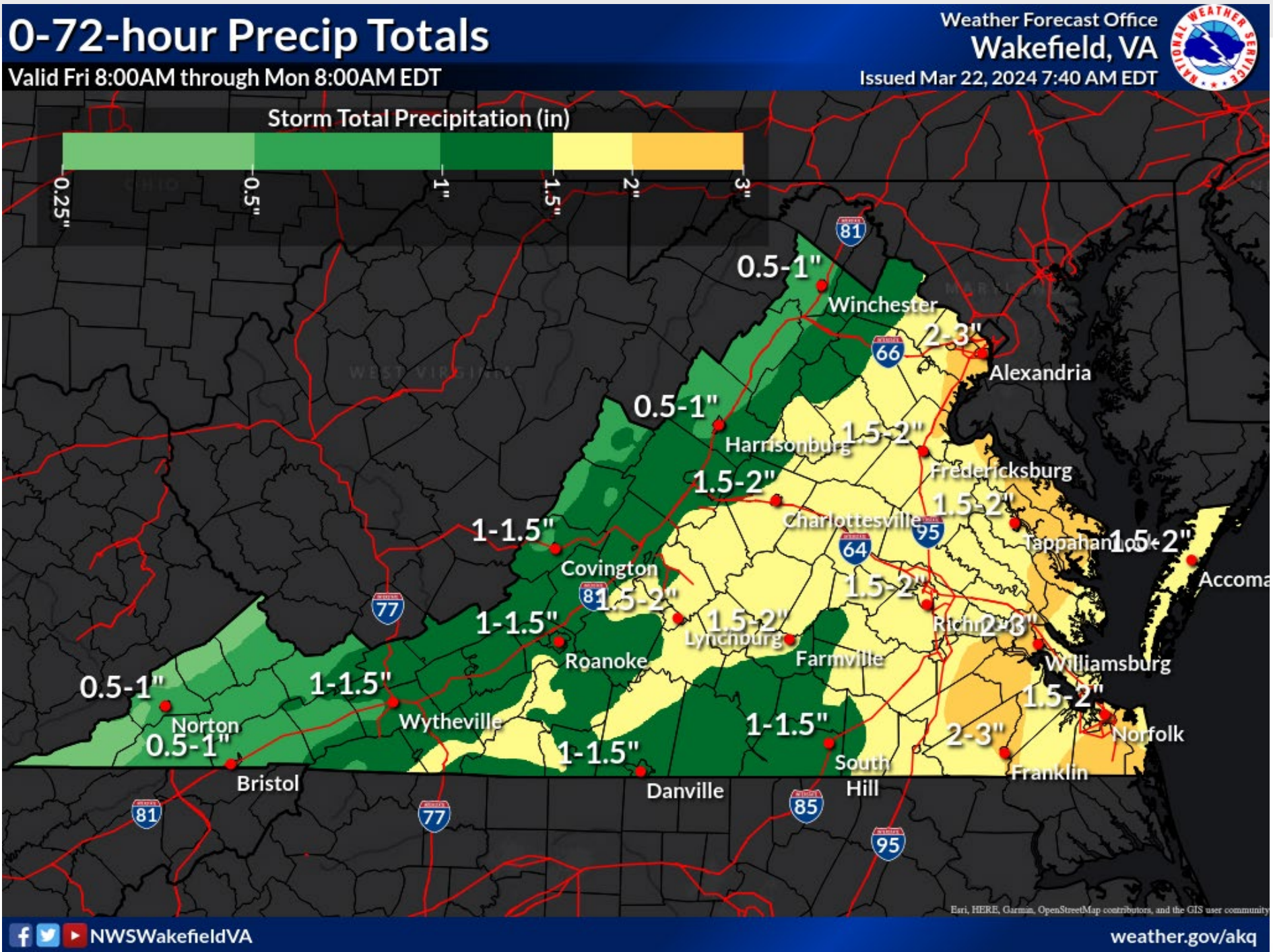
- Heavy rain is expected tonight and Saturday, with a widespread total of 1.50-2.50 inches.
- Rainfall rates could be high enough Saturday to cause localized flooding to some roads and areas of poor drainage.
- Heavy rain will combine with increasing tides in some areas resulting in some additional flooding.





Statewide Precipitation - Next 72 Hours

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Wakefield, VA



Saturday Rainfall Probabilities

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Sat, Mar 23, 2024, 2 AM to
Sun, Mar 24, 2024, 2 AM

Amount of Rainfall

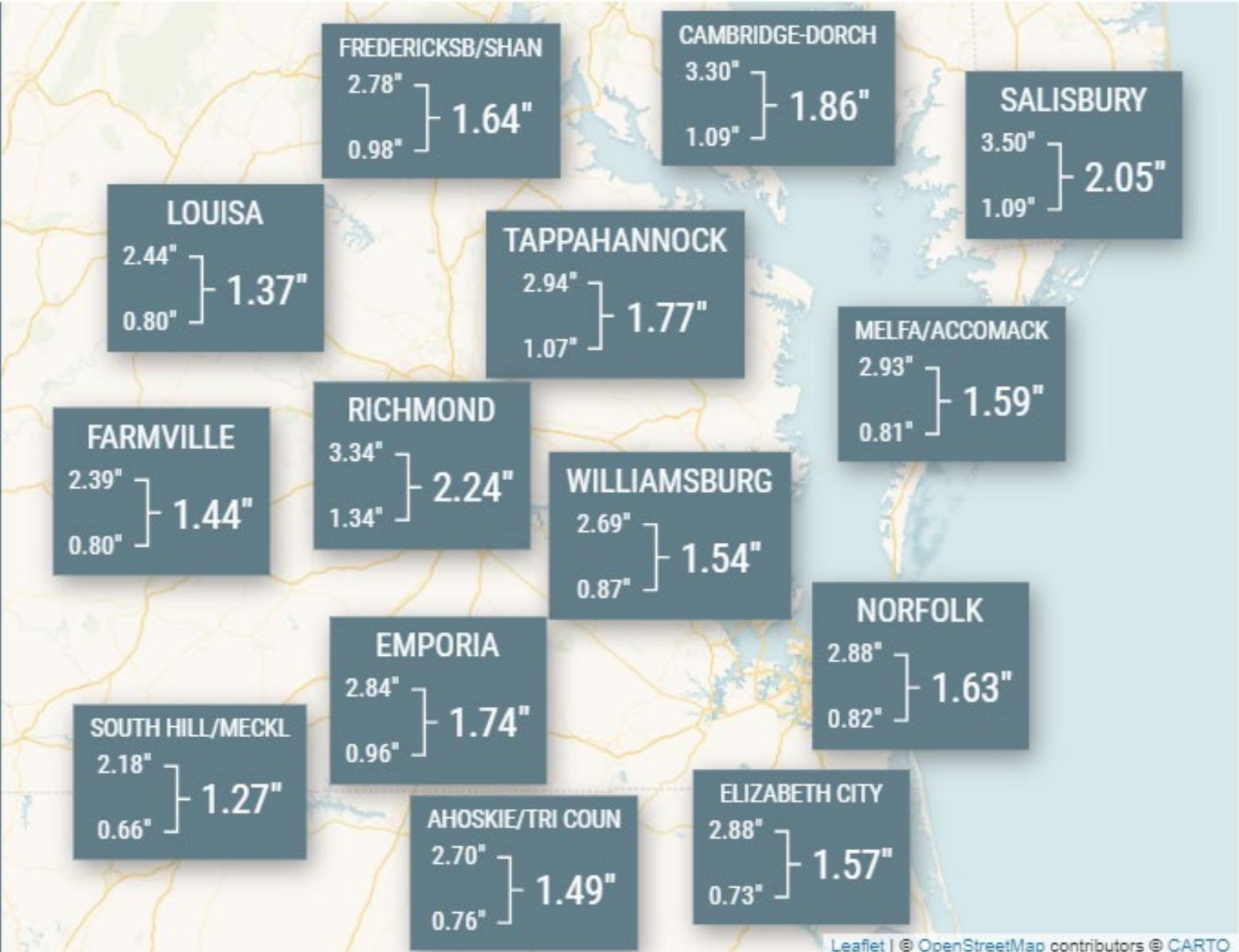
80% of the time the amount of rainfall at the displayed location will fall between the given range. A wider range represents less certainty in the forecast.

Location

Range Forecast } Best Forecast



Issued: Fri, Mar 22, 2024, 8 AM



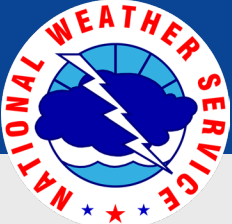
How To Read

Most Possible
Least Possible



Average





Regional Forecast Summary

March 22, 2024
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Maximum Wind Gust Forecast

	3/22 Fri			3/23 Sat				3/24 Sun			
	6am	12pm	6pm	12am	6am	12pm	6pm	12am	6am	12pm	6pm
Accomac	14	20	17	26	44	41	39	43	40	38	31
Ahoskie	16	21	18	22	25	23	33	37	33	31	24
Bowling Green	10	14	14	12	15	24	35	40	37	28	18
Cambridge	12	18	16	17	31	31	40	39	38	32	25
Cape Charles	17	21	23	31	44	40	49	49	49	44	33
Corolla	18	17	24	36	44	39	41	47	46	46	44
Deltaville	13	18	16	24	35	31	36	39	38	36	25
Edenton	16	20	17	25	31	26	31	36	35	32	28
Elizabeth City	18	22	21	28	37	35	37	38	37	39	33
Emporia	13	16	16	22	25	24	33	35	31	28	22
Farmville	10	13	13	12	16	21	30	30	28	24	16
Hampton / Newport News	17	20	20	28	36	32	40	40	40	39	31
Louisa	10	14	14	12	18	24	35	39	35	24	18
Norfolk / Portsmouth	18	22	20	26	38	36	43	43	40	40	32
Ocean City	14	16	16	24	39	38	33	43	44	43	35
Petersburg	14	18	16	16	21	24	35	39	37	28	22
Richmond	13	18	16	15	18	24	35	40	37	28	21
Salisbury	14	21	18	22	43	40	37	39	37	35	30
South Hill	13	16	16	16	18	22	31	33	31	25	21
Suffolk	16	20	18	24	31	29	36	39	37	35	28
Tappahannock	10	16	14	14	23	24	31	37	35	26	20
Virginia Beach	20	20	23	33	44	40	47	49	46	44	39
Williamsburg	14	20	17	22	30	26	36	38	33	30	23

*Table values in mph
**Created: 6 am EDT Fri 3/22/2024
***Values are maximums over the period beginning at the time shown.

6 Hourly Rain Forecast

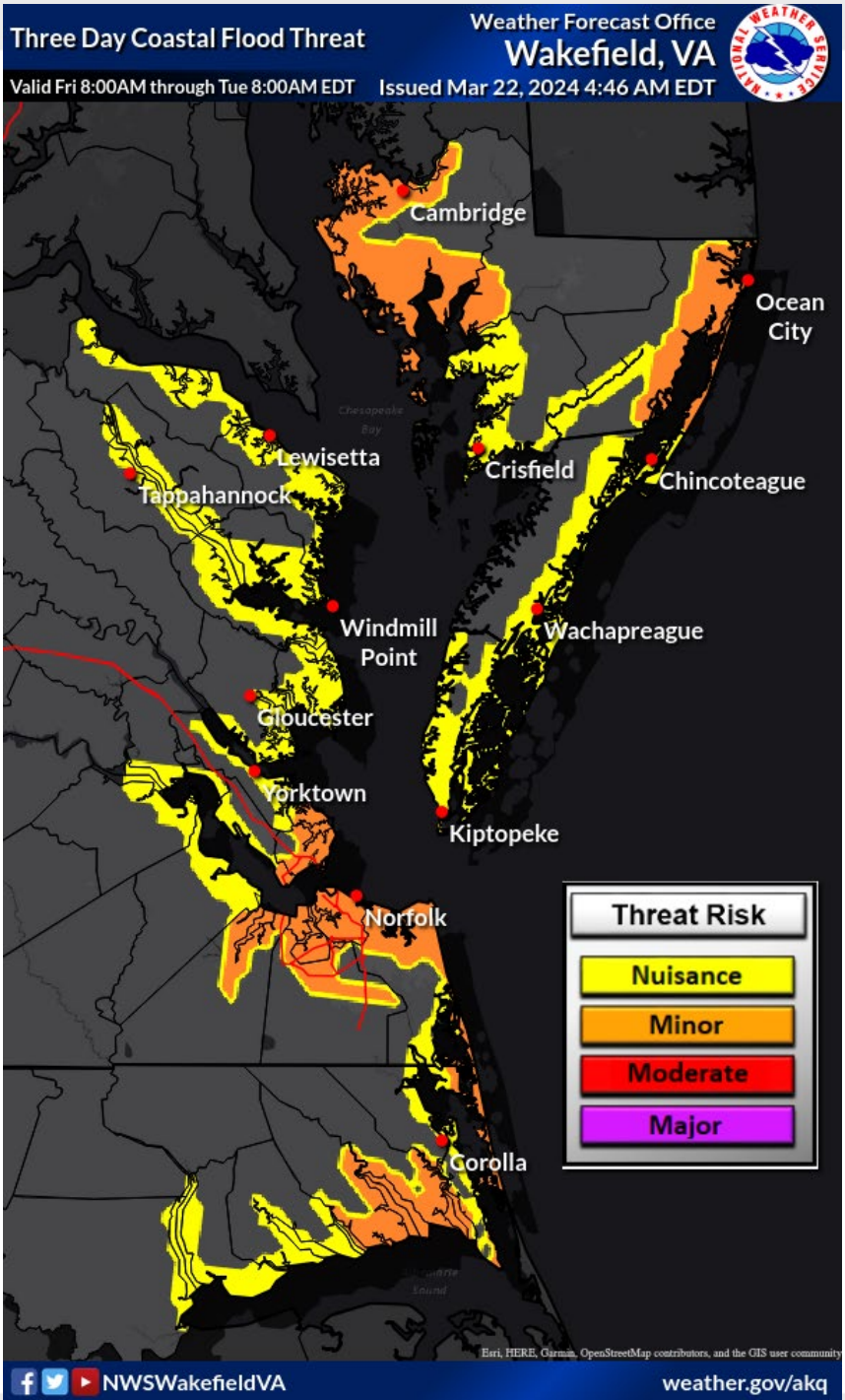
	3/22 Fri			3/23 Sat				Rainfall Total
	8am	2pm	8pm	2am	8am	2pm	8pm	
Accomac	0	0	0.04	0.34	0.64	0.87	0.03	1.92
Ahoskie	0	0.02	0.14	0.78	0.67	0.46	0.01	2.08
Bowling Green	0	0	0.10	0.65	0.98	0.11	0	1.84
Cambridge	0	0	0.04	0.61	1.36	0.42	0	2.43
Cape Charles	0	0	0.06	0.37	0.54	0.74	0.02	1.73
Corolla	0	0	0.11	0.23	1.00	0.62	0.06	2.02
Deltaville	0	0	0.08	0.55	0.90	0.44	0.01	1.98
Edenton	0	0.02	0.21	0.63	0.94	0.60	0.02	2.42
Elizabeth City	0	0	0.13	0.35	0.95	0.69	0.02	2.14
Emporia	0	0.02	0.13	0.74	0.64	0.24	0	1.77
Farmville	0	0.02	0.14	0.82	0.53	0.05	0	1.56
Hampton / Newport News	0	0	0.09	0.42	0.70	0.50	0.01	1.72
Louisa	0	0	0.10	0.76	0.85	0.05	0	1.76
Norfolk / Portsmouth	0	0	0.09	0.39	0.67	0.80	0.02	1.97
Ocean City	0	0	0.01	0.22	0.59	0.91	0.07	1.80
Petersburg	0	0	0.11	0.71	0.90	0.13	0	1.85
Richmond	0	0	0.10	0.70	0.91	0.12	0	1.83
Salisbury	0	0	0.02	0.41	0.89	0.69	0.03	2.04
South Hill	0	0.02	0.17	0.74	0.38	0.08	0	1.39
Suffolk	0	0	0.11	0.44	0.72	0.57	0.01	1.85
Tappahannock	0	0	0.08	0.61	1.14	0.17	0	2.00
Virginia Beach	0	0	0.08	0.32	0.67	0.80	0.02	1.89
Williamsburg	0	0	0.09	0.49	0.98	0.44	0	2.00

*Table values in inches
**Created: 6 am EDT Fri 3/22/2024
***Values are accumulations over the period beginning at the time shown.



Tidal Flooding Overview

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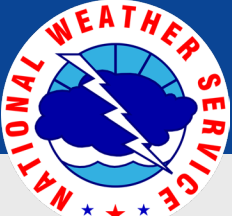
- Minor coastal flooding will be likely across the north side of the Albemarle Sound and up the Currituck Sound to Back Bay, VA due to strong south winds Saturday morning. Southeast winds will combine with heavy rain potentially resulting in additional flooding.
- Coastal flooding is likely across the lower Maryland Eastern Shore and much of the Bay and tidal rivers during high tide from Saturday afternoon into Monday and potentially Tuesday.

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

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

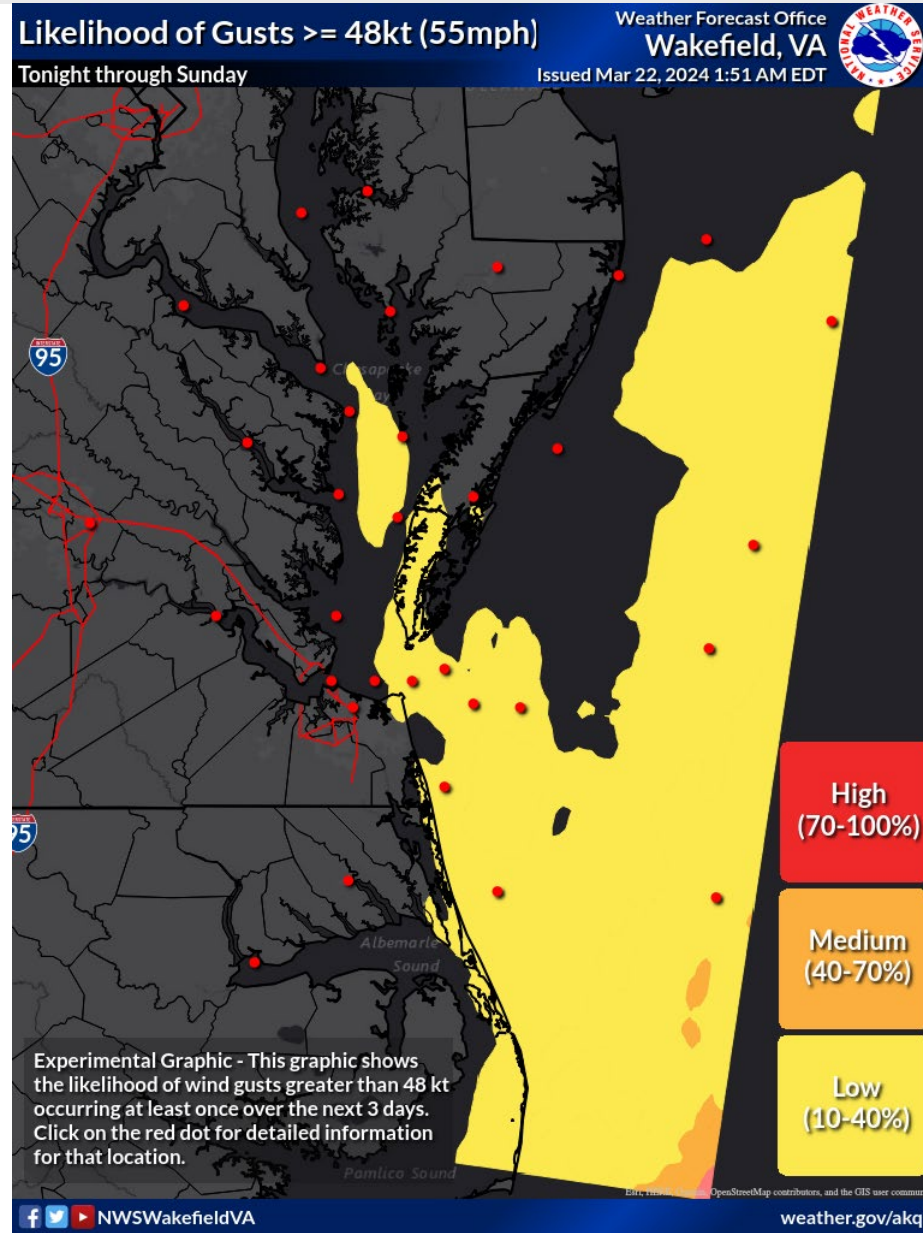
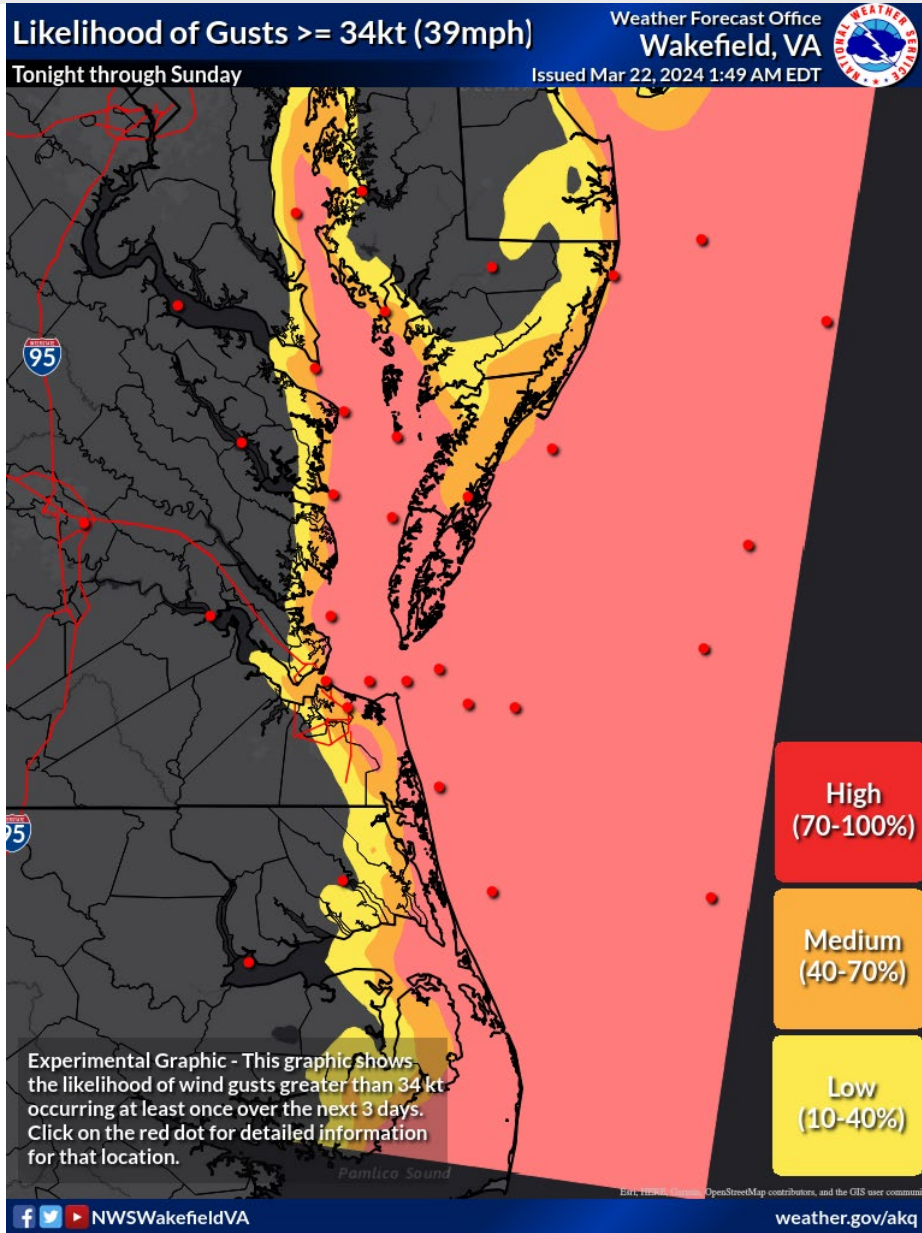
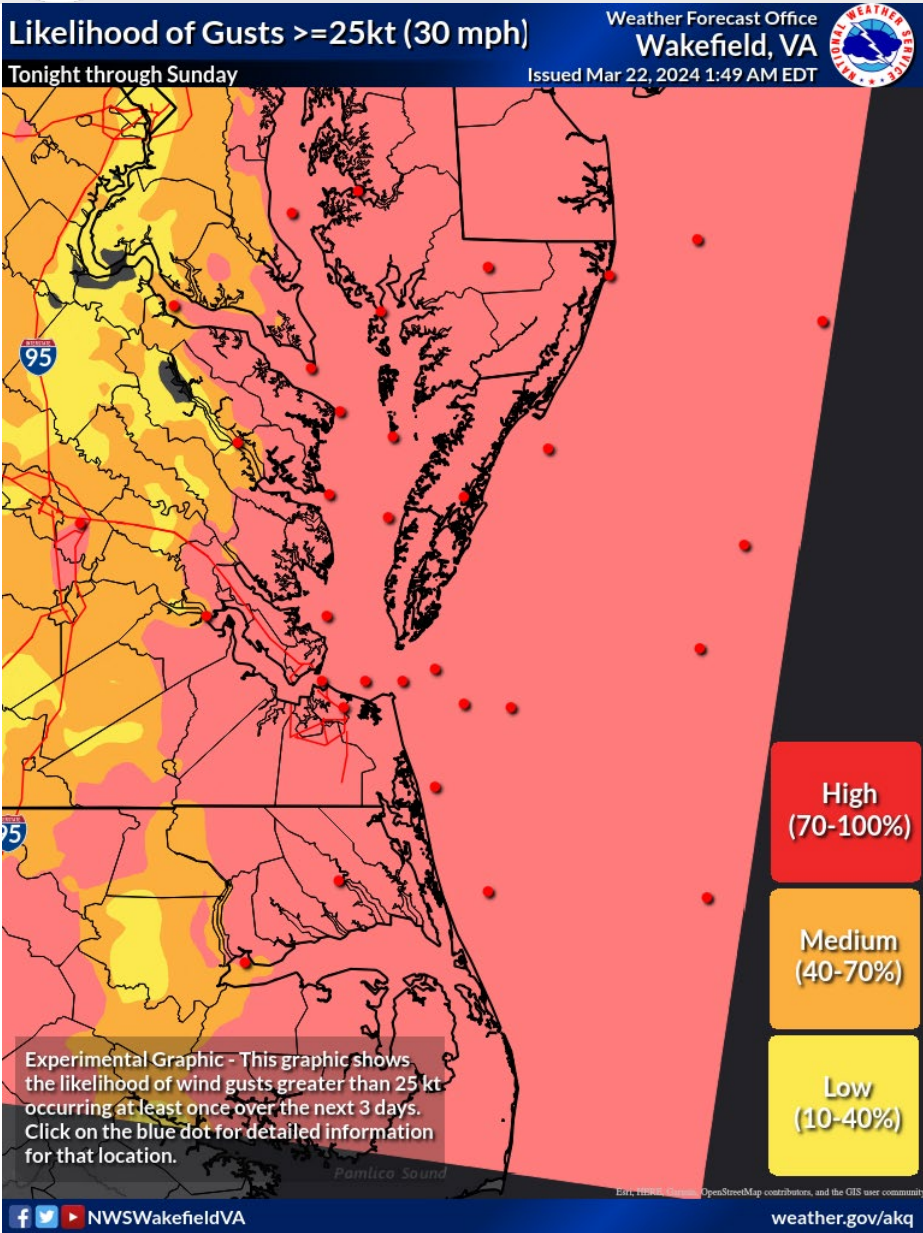
Risk Level	Category	Definition
	None	No Coastal Flooding risk.
	Nuisance	Nuisance Shallow Flooding only in the most vulnerable locations. Expect around a half foot of inundation.
	Minor	Minor Coastal Flooding expected with up to 1 foot of inundation possible in vulnerable locations.
	Moderate	Moderate Coastal Flooding expected with 1 to 2 feet of inundation expected. Water will extend inland from the waterfront.
	Major	Major Coastal Flooding expected with 2 to 3 feet or more of inundation expected. Flooding will extend well inland.





Marine Wind Probabilities

March 22, 2024
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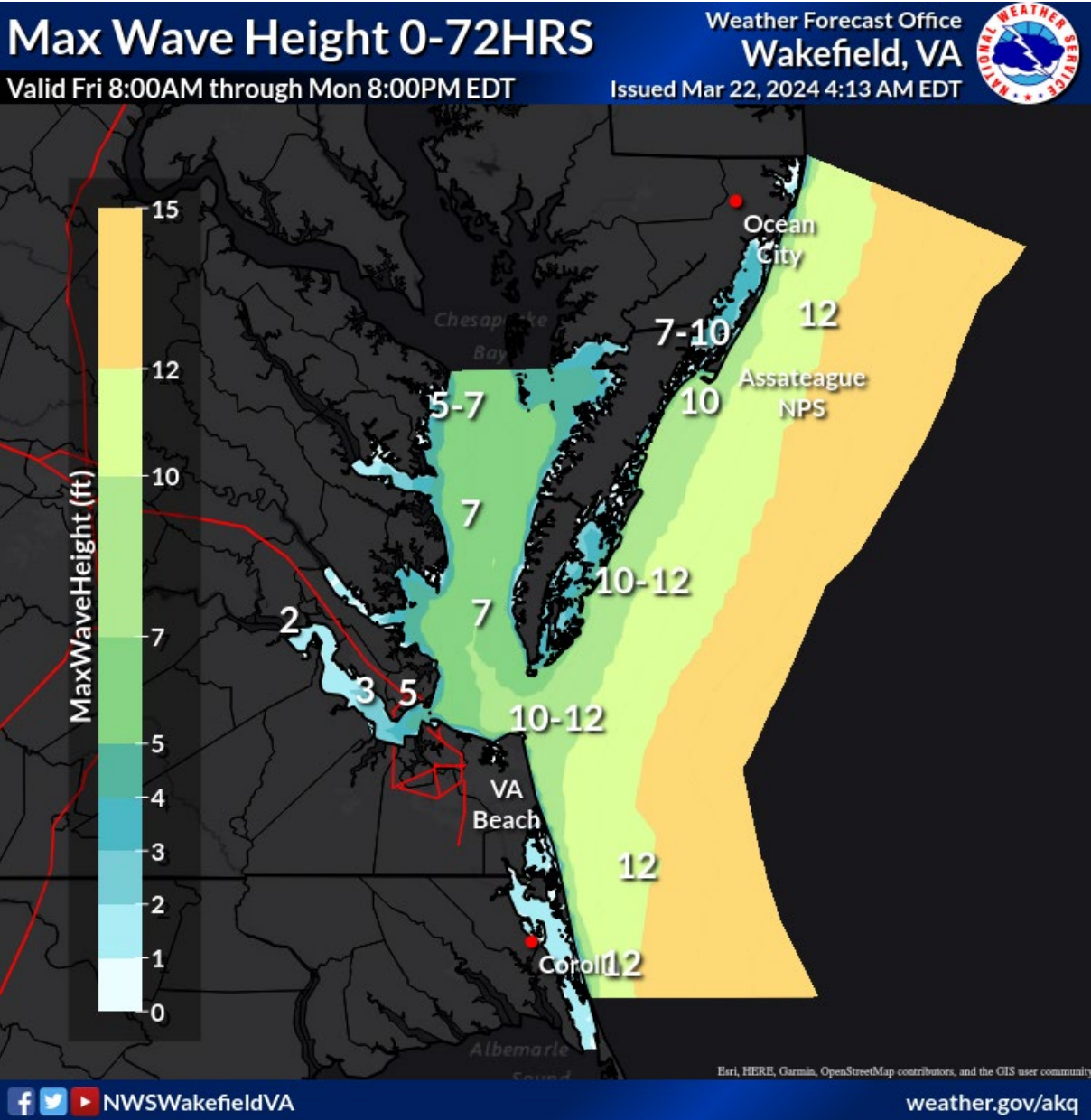
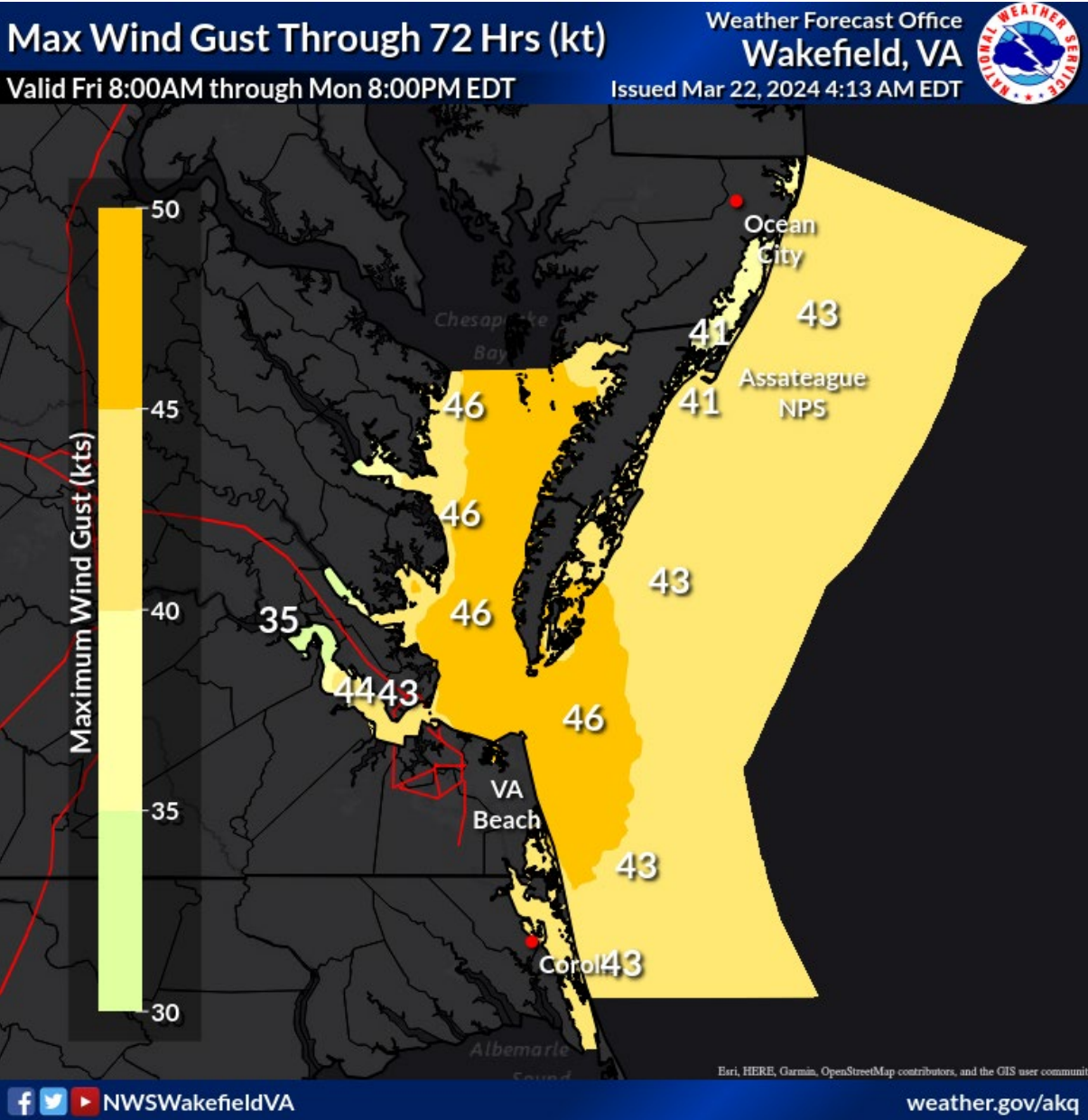
Gale conditions are expected (middle image). There is a low probability of Storm Force Wind Gusts (right image)





Marine Threat Potential

March 22, 2024
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Key Points:

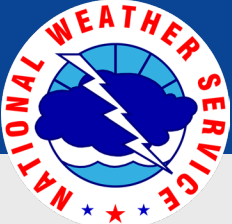
- Gale force winds will be likely across southern portions of the marine area Saturday morning and then for all of the marine area Saturday night into Sunday.
- Wind gusts will peak around 45 kt and seas will reach 9-13 feet.

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



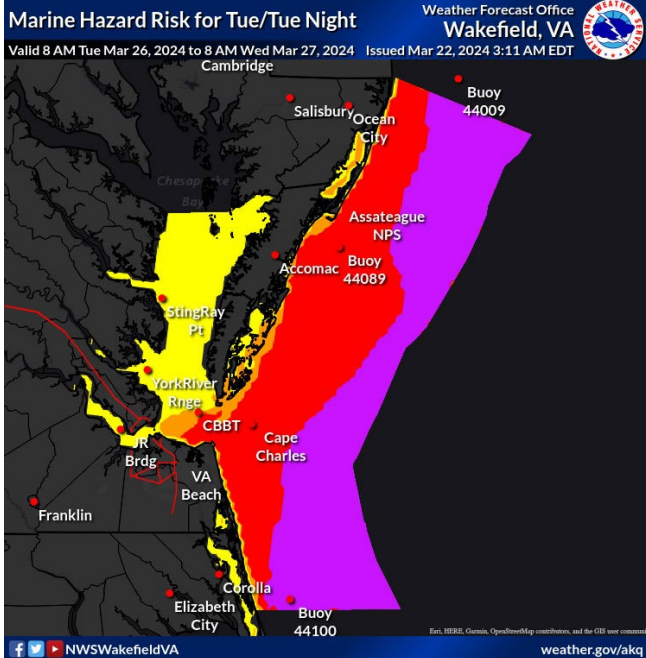
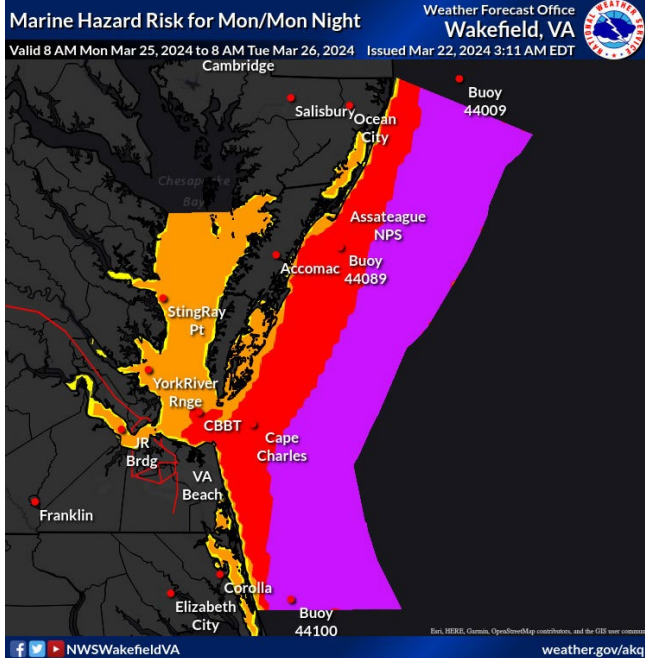
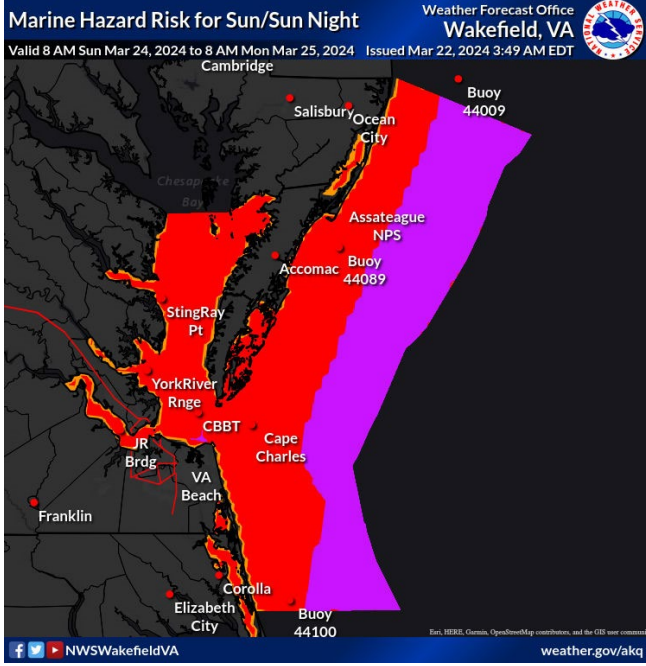
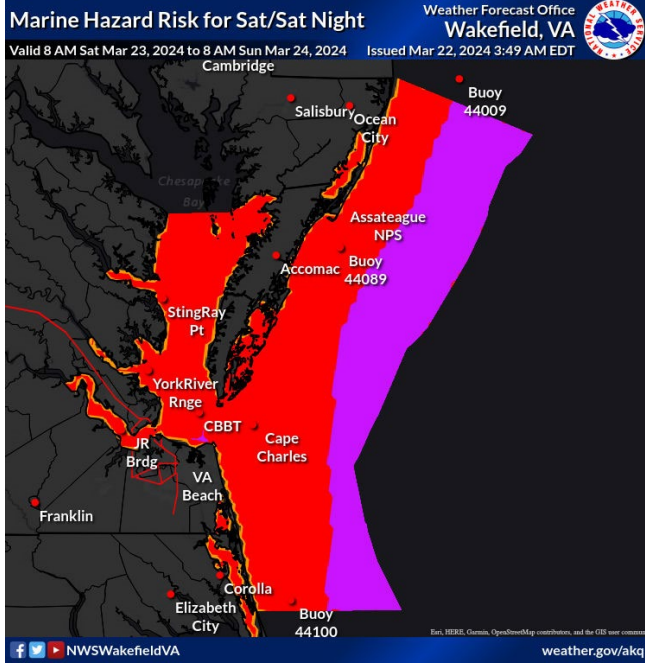
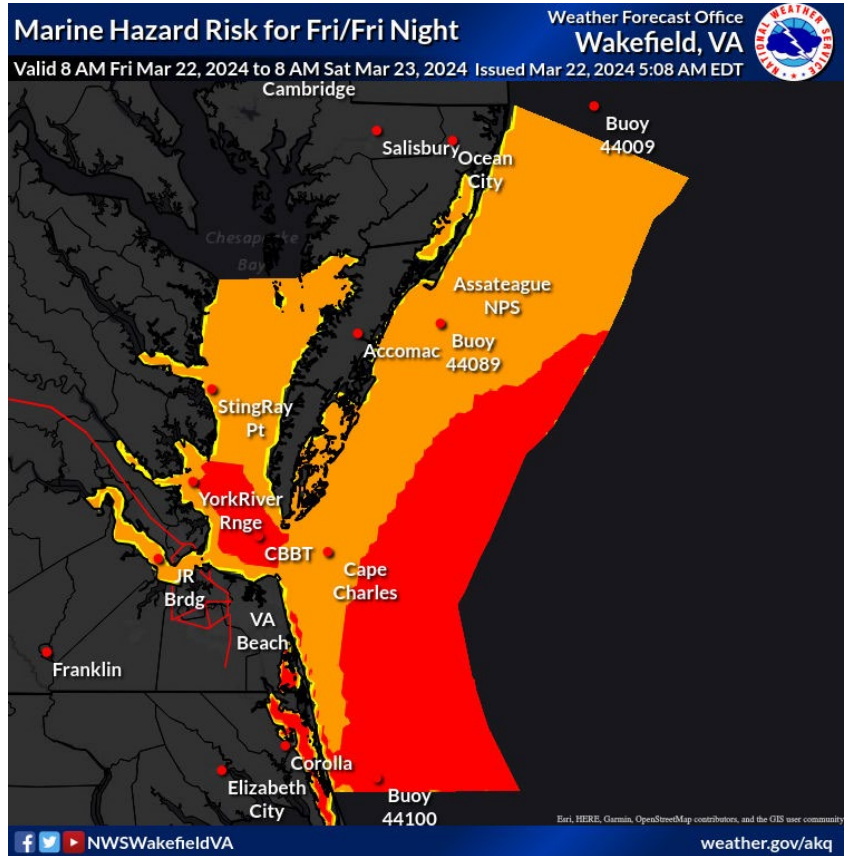
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Wakefield, VA



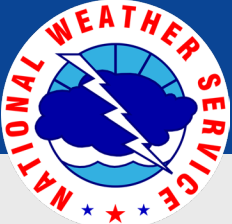
Marine Threat Potential - Next 5 Days

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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 Forecast Summary

March 22, 2024
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Sustained Wind

Maximum Wind Speed Forecast

	3/22 Fri				3/23 Sat				3/24 Sun				3/25 Mon			
	12am	6am	12pm	6pm	12am	6am	12pm	6pm	12am	6am	12pm	6pm	12am	6am	12pm	6pm
CBBT	11↖	14↖	15↖	17↖	23↖	29↖	26↖	33↘	35↘	34↘	30↘	24↘	22↘	21↘	20↘	20↘
Cape Henry	11↖	14↖	15↖	18↖	23↖	30↖	27↖	33↘	35↘	34↘	31↘	26↘	23↘	22↘	22↘	20↘
Chesapeake Light	10↖	13↖	14↖	17↖	23↖	31↖	28↖	29↘	33↘	32↘	32↘	29↘	26↘	24↘	22↘	21↘
Chincoteague Shoal	8↘	10↖	13↖	14↖	20↖	26↖	25↖	23↘	30↘	30↘	30↘	25↘	24↘	23↘	22↘	20↘
Duck, NC	11↖	13↖	13↖	17↖	23↖	29↖	26↖	29↘	33↘	32↘	30↘	28↘	25↘	23↘	21↘	20↘
Fenwick Shoal	9↘	10↖	13↖	14↖	16↖	27↖	29↖	26↘	31↘	31↘	30↘	23↘	24↘	24↘	21↘	20↘
HRBT	10↖	13↖	14↖	15↖	19↖	23↖	21↖	30↘	30↘	30↘	28↘	20↘	19↘	19↘	18↘	16↘
JRB	11↖	12↖	14↖	14↖	18↖	23↖	20↖	26↘	30↘	30↘	26↘	19↘	17↘	16↘	15↘	14↘
New Point Comfort	9↘	12↖	15↖	15↖	20↖	26↖	23↖	32↘	32↘	30↘	28↘	20↘	18↘	18↘	16↘	15↘
Parramore Banks	7↘	10↖	14↖	15↖	21↖	28↖	26↖	24↘	31↘	31↘	30↘	25↘	24↘	23↘	21↘	20↘
Rappahannock Light	9↘	10↖	14↖	15↖	20↖	27↖	25↖	33↘	35↘	34↘	28↘	20↘	19↘	19↘	16↘	15↘
Tangier	9↘	10↖	14↖	15↖	20↖	25↖	23↖	33↘	35↘	34↘	27↘	19↘	19↘	18↘	15↘	14↘
Thimble Shoal	12↖	14↖	16↖	18↖	23↖	28↖	25↖	33↘	35↘	34↘	30↘	22↘	20↘	20↘	19↘	19↘

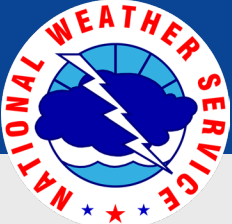
*Table values in kt
**Created: 6 am EDT Fri 3/22/2024
***Values are maximums over the period beginning at the time shown.

Wind Gusts

Maximum Wind Gust Forecast

	3/22 Fri				3/23 Sat				3/24 Sun				3/25 Mon			
	12am	6am	12pm	6pm	12am	6am	12pm	6pm	12am	6am	12pm	6pm	12am	6am	12pm	6pm
CBBT	14↖	18↖	18↖	21↖	29↖	37↖	33↖	42↘	43↘	43↘	38↘	30↘	28↘	26↘	25↘	25↘
Cape Henry	14↖	18↖	18↖	23↖	29↖	38↖	34↖	41↘	43↘	43↘	39↘	33↘	29↘	28↘	28↘	25↘
Chesapeake Light	13↖	16↖	17↖	21↖	29↖	38↖	35↖	36↘	41↘	40↘	40↘	36↘	33↘	30↘	28↘	26↘
Chincoteague Shoal	10↘	13↖	16↖	18↖	25↖	33↖	32↖	29↘	38↘	38↘	38↘	32↘	30↘	29↘	28↘	25↘
Duck, NC	14↖	16↖	16↖	22↖	30↖	36↖	33↖	37↘	41↘	41↘	39↘	36↘	32↘	30↘	27↘	25↘
Fenwick Shoal	11↘	13↖	16↖	18↖	22↖	37↖	40↖	35↘	36↘	38↘	38↘	27↘	29↘	29↘	29↘	28↘
HRBT	13↖	16↖	18↖	20↖	26↖	31↖	29↖	40↘	40↘	40↘	38↘	27↘	25↘	25↘	24↘	21↘
JRB	15↖	16↖	18↖	19↖	24↖	31↖	27↖	35↘	41↘	41↘	35↘	26↘	23↘	22↘	20↘	19↘
New Point Comfort	12↖	15↖	19↖	20↖	26↖	34↖	30↖	42↘	42↘	39↘	37↘	26↘	24↘	24↘	21↘	20↘
Parramore Banks	9↘	13↖	17↖	19↖	26↖	35↖	33↖	30↘	39↘	39↘	37↘	31↘	30↘	29↘	26↘	25↘
Rappahannock Light	11↖	13↖	17↖	19↖	25↖	34↖	31↖	41↘	43↘	43↘	35↘	25↘	24↘	24↘	20↘	19↘
Tangier	11↖	13↖	17↖	19↖	25↖	32↖	29↖	42↘	43↘	43↘	34↘	24↘	24↘	23↘	19↘	18↘
Thimble Shoal	15↖	18↖	19↖	23↖	29↖	35↖	31↖	41↘	43↘	43↘	38↘	28↘	25↘	25↘	24↘	24↘

*Table values in kt
**Created: 6 am EDT Fri 3/22/2024
***Values are maximums over the period beginning at the time shown.



Marine Wave Forecast Summary

March 22, 2024
8:43 AM

Wave Height Forecast																					
	3/22	3/23				3/24				3/25				3/26				3/27			
	Fri	Sat				Sun				Mon				Tue				Wed			
	6pm	12am	6am	12pm	6pm	12am	6am	12pm	6pm	12am	6am	12pm	6pm	12am	6am	12pm	6pm	12am	6am	12pm	6pm
CBBT	3.0	5.0	6.0	5.0	6.0	7.0	7.0	6.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	4.0	4.0	4.0	3.0	3.0
Cape Henry	4.0	5.0	7.0	7.0	7.0	8.0	8.0	8.0	8.0	9.0	9.0	9.0	9.0	9.0	9.0	9.0	8.0	6.0	5.0	5.0	5.0
Chesapeake Light	4.0	7.0	9.0	10.0	9.0	10.0	10.0	10.0	10.0	11.0	11.0	12.0	12.0	12.0	12.0	11.0	10.0	8.0	7.0	7.0	6.0
Chincoteague Shoal	3.0	5.0	8.0	9.0	9.0	8.0	8.0	8.0	9.0	10.0	10.0	10.0	10.0	10.0	10.0	9.0	8.0	7.0	6.0	6.0	5.0
Duck, NC	4.0	6.0	8.0	8.0	8.0	9.0	9.0	9.0	10.0	10.0	10.0	11.0	11.0	11.0	11.0	10.0	9.0	7.0	6.0	6.0	5.0
Fenwick Shoal	3.0	4.0	7.0	11.0	10.0	9.0	10.0	10.0	10.0	9.0	9.0	9.0	9.0	8.0	8.0	7.0	6.0	6.0	5.0	5.0	4.0
HRBT	2.0	3.0	3.0	3.0	4.0	5.0	5.0	4.0	4.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	2.0	2.0	2.0
JRB	2.0	2.0	2.0	2.0	2.0	2.0	3.0	3.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	1.0	1.0	1.0
New Point Comfort	3.0	4.0	4.0	4.0	5.0	5.0	5.0	4.0	3.0	3.0	3.0	3.0	3.0	3.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0
Parramore Banks	3.0	5.0	8.0	9.0	9.0	8.0	8.0	8.0	9.0	10.0	10.0	10.0	10.0	10.0	10.0	9.0	8.0	7.0	6.0	5.0	5.0
Rappahannock Light	2.0	4.0	4.0	5.0	6.0	7.0	7.0	6.0	4.0	4.0	4.0	3.0	3.0	3.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0
Tangier	2.0	3.0	4.0	5.0	6.0	6.0	6.0	5.0	3.0	3.0	3.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0
Thimble Shoal	4.0	5.0	5.0	5.0	6.0	7.0	7.0	6.0	5.0	4.0	4.0	4.0	4.0	3.0	3.0	3.0	3.0	3.0	3.0	2.0	2.0

*Table values in feet
**Created: 8 am EDT Fri 3/22/2024
***Values are maximums over the period beginning at the time shown.

Waves remain elevated for a prolonged period of time. Conditions in the lower Bay and Mouth of the Bay will be dangerous Saturday evening and into early Sunday as a southeast swell opposes strong northwest winds.



Key Messages

March 22, 2024
8:43 AM

- Strong wind gusts of 40-50 mph are expected Saturday morning (along the coast) and then Saturday night into Sunday for much of eastern Virginia, coastal northeast North Carolina and lower Maryland.
- Heavy rain is expected tonight and Saturday, with a widespread total of 1.50-2.50 inches”.
- Heavy rain and gusty southwest winds could result in more widespread flooding over the southern end of VA Beach around Pungo and Sandbridge as well as along the Currituck Sound and in Elizabeth City, NC Saturday.
- Minor coastal flooding will be possible across the Bay and tidal rivers Saturday through Monday.
- **Marine** - Gale Warnings begin for the southern waters early Saturday morning. Gale Watches continue for the remaining zones for strong N winds behind the front Saturday night into Sunday. High end Gale Conditions are expected.

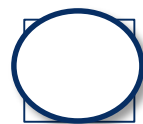




Contact and Next Briefing Information

March 22, 2024
8:43 AM

For NWS Wakefield, Virginia



Briefing Webpage

→ [NWS Wakefield Briefing](#)



Next Briefing

→ By 9:00 AM Saturday, March 23
→ Method: Email



Disclaimer

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



Contact Information

Web

→ weather.gov/wakefield

Phone

→ (757) 899-4200

Email

→ akq-report@noaa.gov

Facebook

→ www.facebook.com/NWSWakefieldVA

Twitter

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

