



Coastal Storm Briefing

March 27, 2024
9:00 AM

Prepared by National Weather Service Wakefield, VA

Decision Support Briefing #2

→ As of 9:00 AM EDT
Wednesday, March 27, 2024

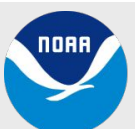
NEW

Important Updates

- Flood Watch Added for much of southeastern Virginia and northeast North Carolina
- Gale Watch Added for the mouth of Chesapeake Bay in addition to the Atlantic Coastal Waters



Disclaimer: Information may become outdated after briefing time.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



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

National Weather Service
Wakefield, VA



Key Messages

March 27, 2024
9:00 AM

- Nuisance to minor tidal flooding continues into tonight/early Thursday's high tide cycle over the upper Chesapeake Bay.
- Another area of low pressure lifts across the area tonight into Thursday. This system brings additional rainfall to the area today through Thursday afternoon, some of which could fall heavily at times Wednesday night into Thursday. A **Flood Watch** has been added for much of southeastern Virginia and northeast North Carolina.
- This additional rainfall could result in minor flooding of urban or flood-prone areas, along with elevated river levels later this week.





Expected Rainfall Forecast

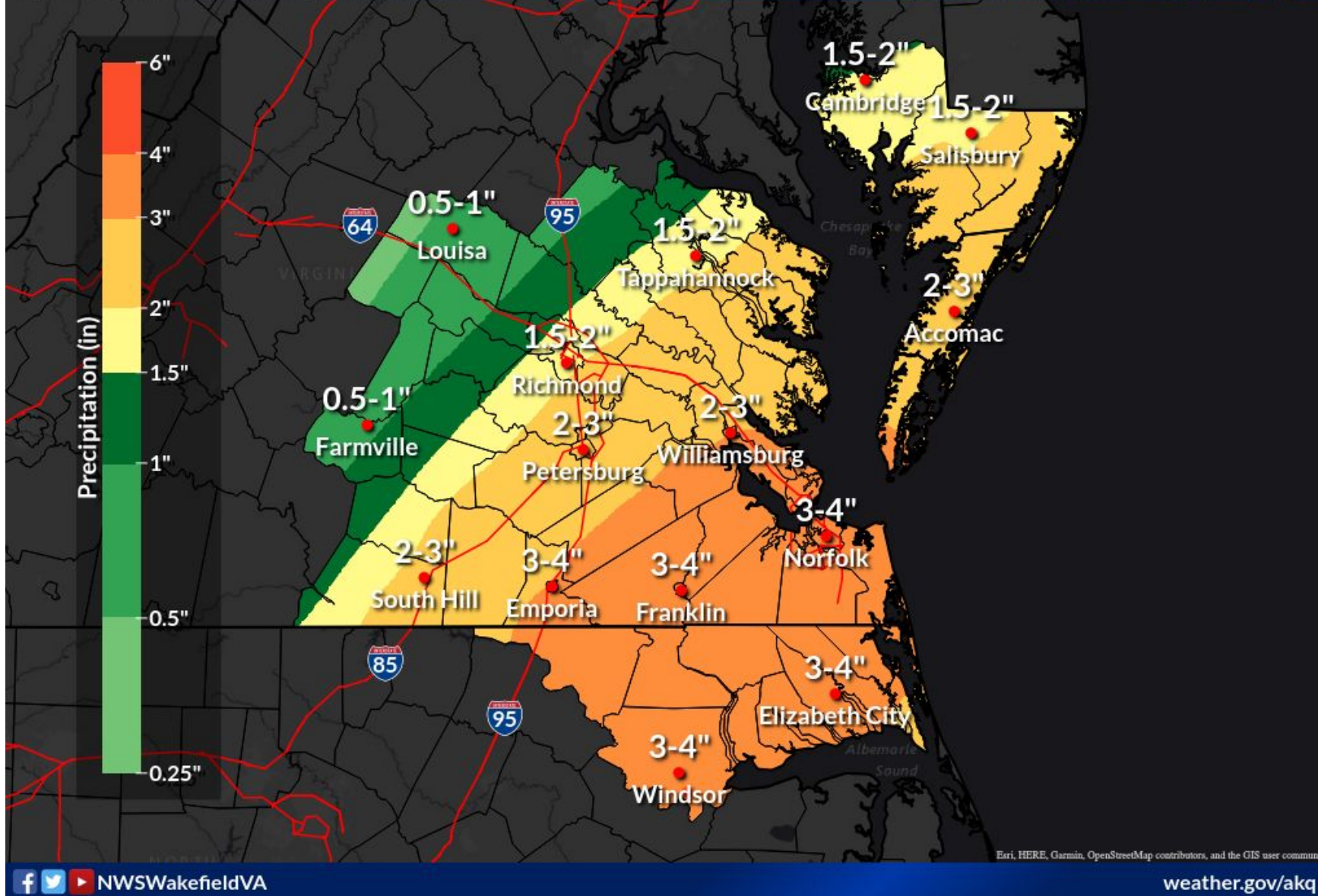
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72-hour Precipitation Amount

Valid Wed 8:00AM through Sat 8:00AM EDT

Weather Forecast Office
Wakefield, VA

Issued Mar 27, 2024 5:31 AM EDT



- Rainfall totals of 1-3" expected for most of the area. Higher amounts of 3-4" are possible over southeast VA and northeast NC.
- Scattered showers today transition to a steadier, more widespread rainfall tonight into Thursday. Rain tapers off Thursday afternoon.
- The western extent of the heavy rainfall remains somewhat uncertain.
- Minor flooding of urban and flood-prone areas is possible. Elevated river levels are also possible by late this week.



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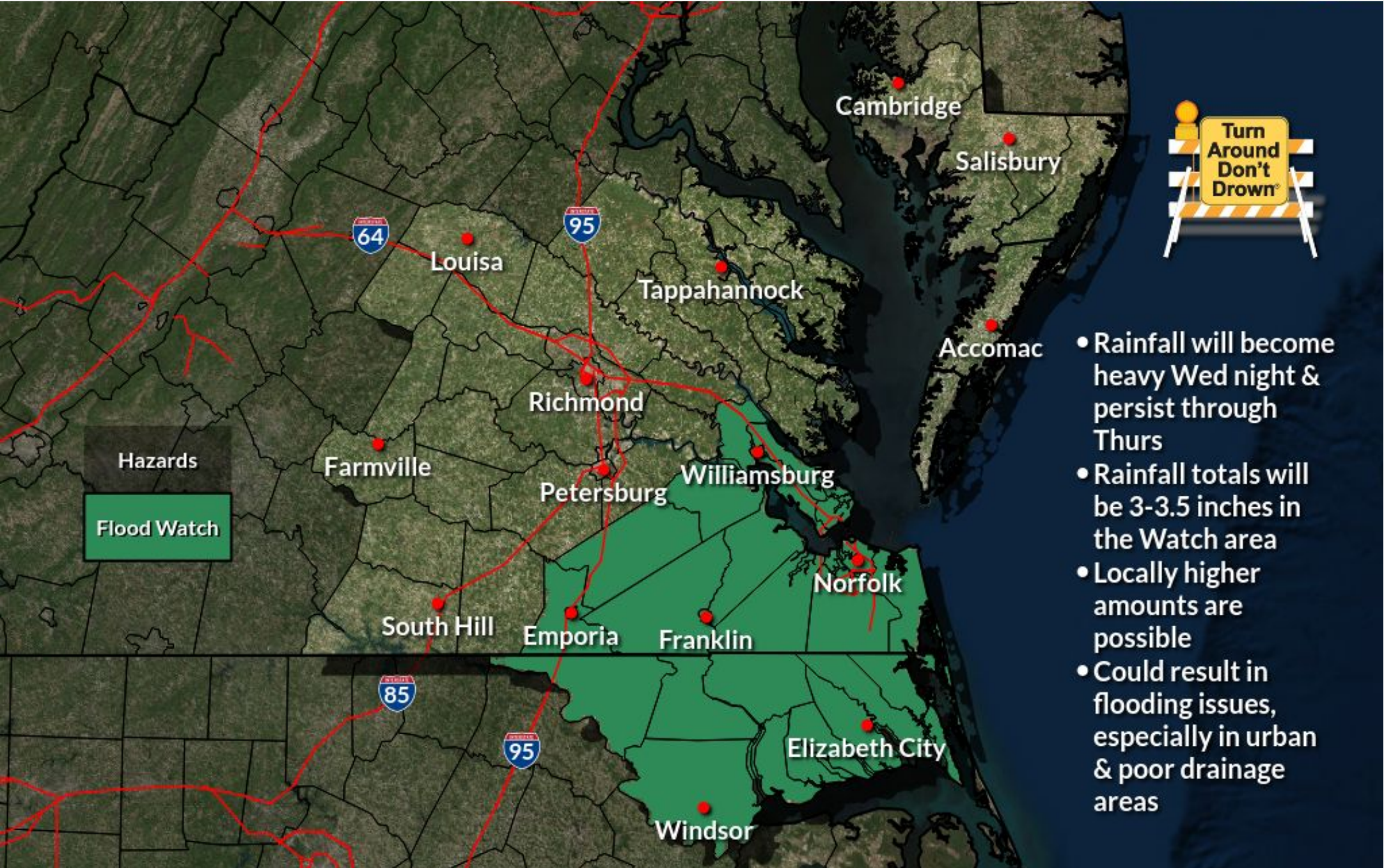
National Weather Service
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Flood Watch in Effect Through Thursday Evening

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Heavy Rainfall Expected Tonight Through Thursday





Regional Forecast Summary

March 27, 2024
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Probability of Precipitation Forecast

	3/27 Wed					3/28 Thu									3/29 Fri		
	9am	12pm	3pm	6pm	9pm	12am	3am	6am	9am	12pm	3pm	6pm	9pm	12am	3am	6am	
Accomac	10	15	50	55	85	85	95	95	95	95	85	85	45	45	15	15	
Ahoskie	20	40	55	65	90	90	95	95	90	90	85	85	30	30	10	10	
Bowling Green	75	85	85	75	65	65	70	70	65	65	50	50	10	10	5	5	
Cambridge	30	50	70	70	80	80	85	85	80	80	70	70	20	20	10	10	
Cape Charles	15	25	55	60	90	90	95	95	95	95	85	85	45	45	15	15	
Corolla	5	10	25	30	70	70	85	85	95	95	90	90	60	60	20	20	
Deltaville	35	55	80	75	90	90	95	95	85	85	80	80	30	30	10	10	
Edenton	15	25	45	45	85	85	95	95	95	95	85	85	40	40	10	10	
Elizabeth City	10	15	35	40	80	80	95	95	95	95	90	90	50	50	15	15	
Emporia	60	80	85	85	90	90	90	90	80	80	70	70	15	15	5	5	
Farmville	85	85	75	65	60	60	60	60	55	55	35	35	5	5	0	0	
Hampton / Newport News	20	35	55	65	90	90	95	95	90	90	85	85	35	35	10	10	
Louisa	75	80	65	55	50	50	50	50	50	50	30	30	5	5	5	5	
Norfolk / Portsmouth	15	25	50	55	90	90	95	95	95	95	85	85	45	45	10	10	
Ocean City	5	10	35	40	80	80	95	95	95	95	85	85	50	50	20	20	
Petersburg	75	85	90	85	85	85	85	85	75	75	65	65	15	15	5	5	
Richmond	75	85	90	85	80	80	80	80	70	70	60	60	10	10	5	5	
Salisbury	10	25	55	55	80	80	90	90	90	90	80	80	35	35	15	15	
South Hill	80	90	90	85	80	80	80	80	65	65	55	55	10	10	5	5	
Suffolk	20	35	55	65	90	90	95	95	90	90	85	85	40	40	10	10	
Tappahannock	65	75	90	80	80	80	85	85	75	75	65	65	15	15	5	5	
Virginia Beach	10	15	40	50	85	85	95	95	95	95	90	90	55	55	15	15	
Williamsburg	35	65	80	80	90	90	95	95	85	85	80	80	25	25	10	10	

*Table values in %
**Created: 8 am EDT Wed 3/27/2024

Rain Forecast

	3/27 Wed		3/28 Thu		Total
	2pm	8pm	2am	8am	
Accomac	0.07	0.33	0.88	0.59	2.45
Ahoskie	0.18	0.69	1.18	1.01	3.54
Bowling Green	0.17	0.10	0.25	0.20	0.79
Cambridge	0.16	0.21	0.53	0.37	1.47
Cape Charles	0.16	0.46	1.01	0.75	2.98
Corolla	0.09	0.23	0.52	1.02	2.83
Deltaville	0.19	0.51	0.86	0.55	2.49
Edenton	0.28	0.52	1.06	1.17	3.64
Elizabeth City	0.20	0.38	0.95	1.17	3.44
Emporia	0.29	0.69	0.92	0.63	2.76
Farmville	0.09	0.10	0.19	0.15	0.57
Hampton / Newport News	0.22	0.57	1.13	0.85	3.32
Louisa	0.05	0.03	0.12	0.08	0.30
Norfolk / Portsmouth	0.14	0.47	1.19	0.99	3.44
Ocean City	0.02	0.22	0.68	0.56	2.08
Petersburg	0.38	0.54	0.61	0.53	2.23
Richmond	0.33	0.31	0.43	0.34	1.54
Salisbury	0.08	0.29	0.70	0.50	1.96
South Hill	0.44	0.51	0.48	0.35	1.87
Suffolk	0.14	0.61	1.17	0.95	3.43
Tappahannock	0.26	0.32	0.52	0.37	1.63
Virginia Beach	0.12	0.41	1.08	1.03	3.40
Williamsburg	0.20	0.59	0.99	0.65	2.82

*Table values in inches
**Created: 8 am EDT Wed 3/27/2024
***Values are accumulations over the period beginning at the time shown.

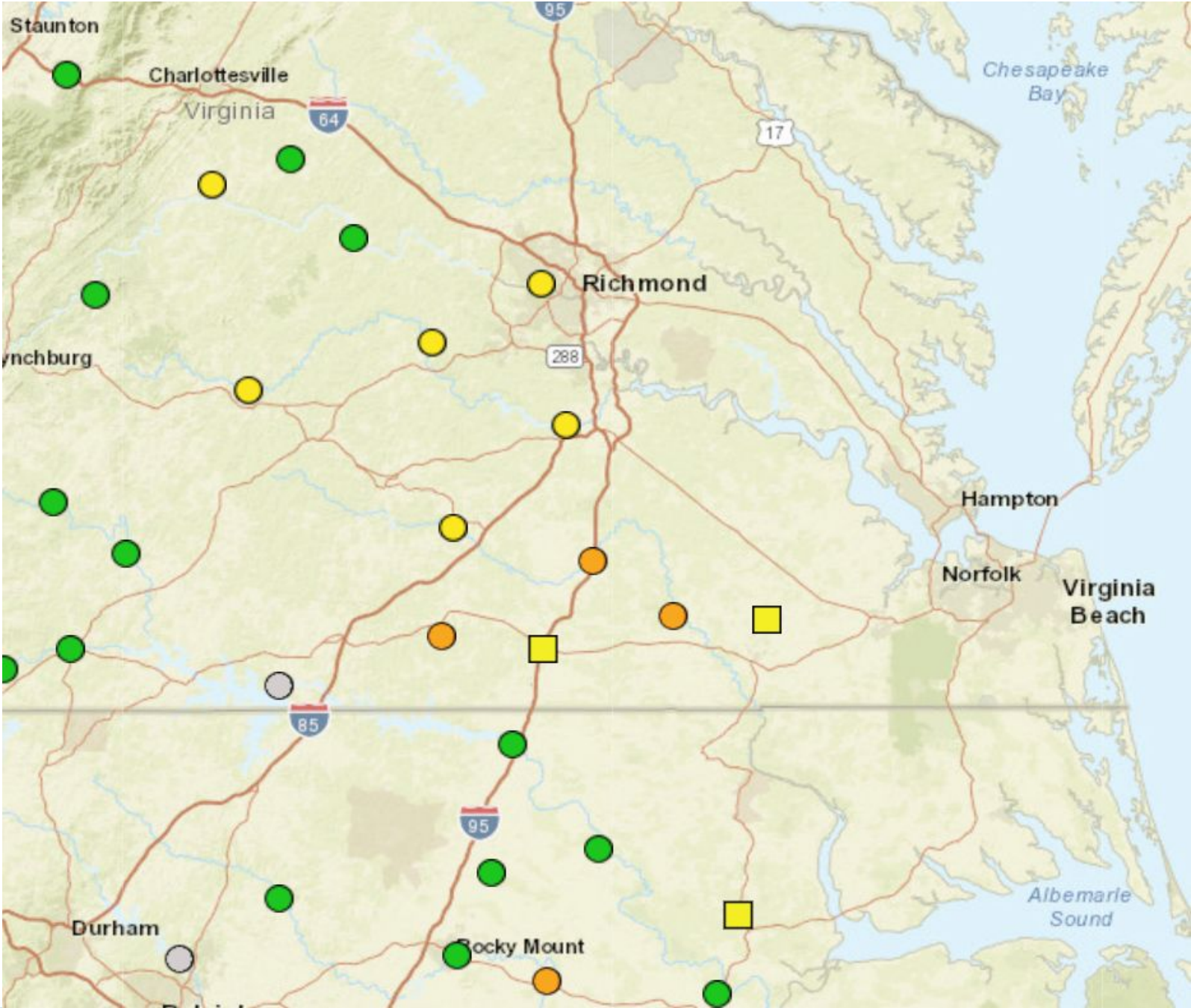
6 Hourly
Rainfall
Amounts
and
Storm
Totals





Potential River Flooding

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River flooding is possible late this week after the heavy rainfall, especially in the Chowan basin.

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

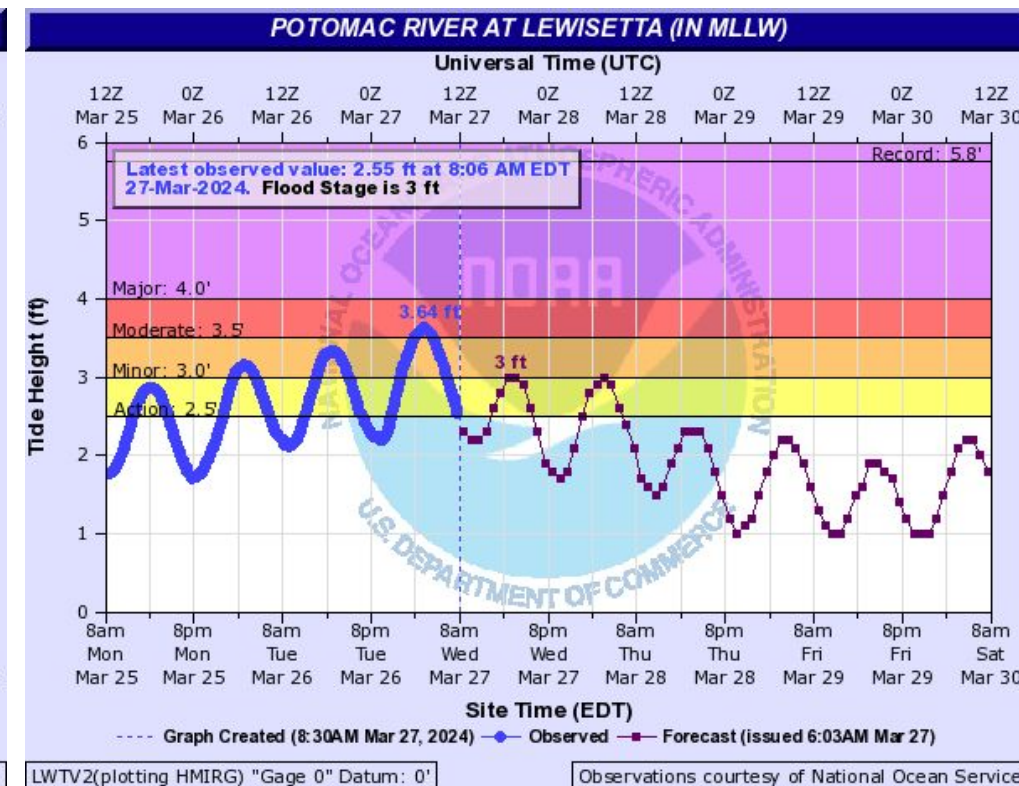
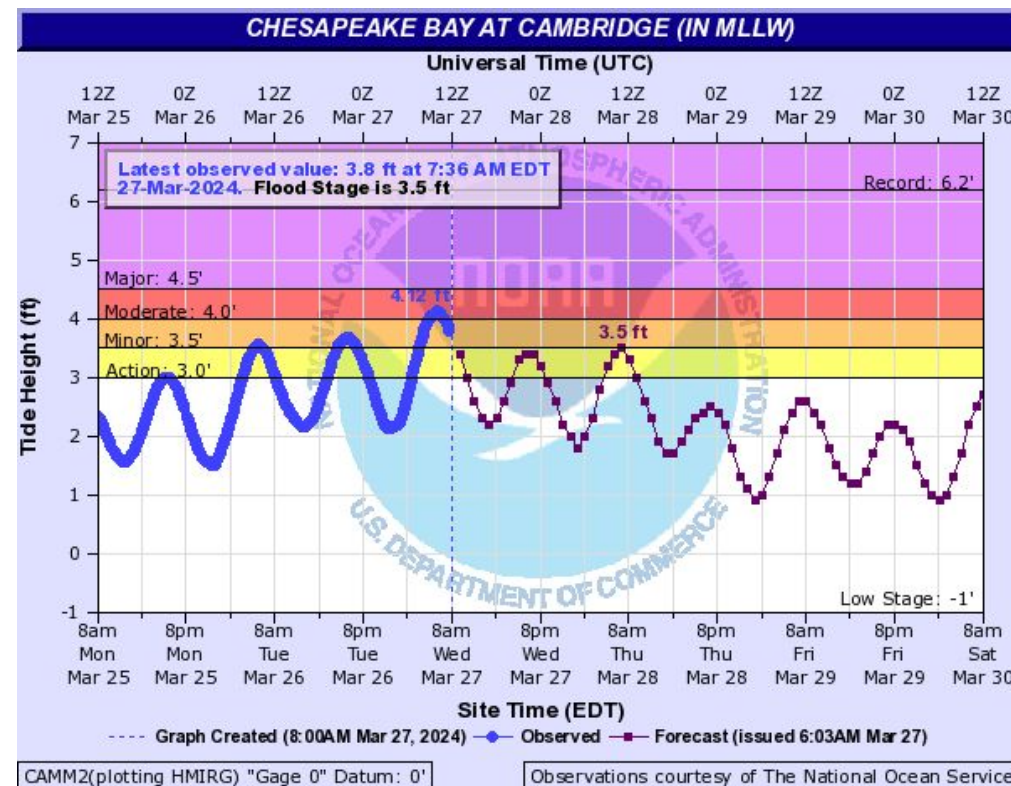
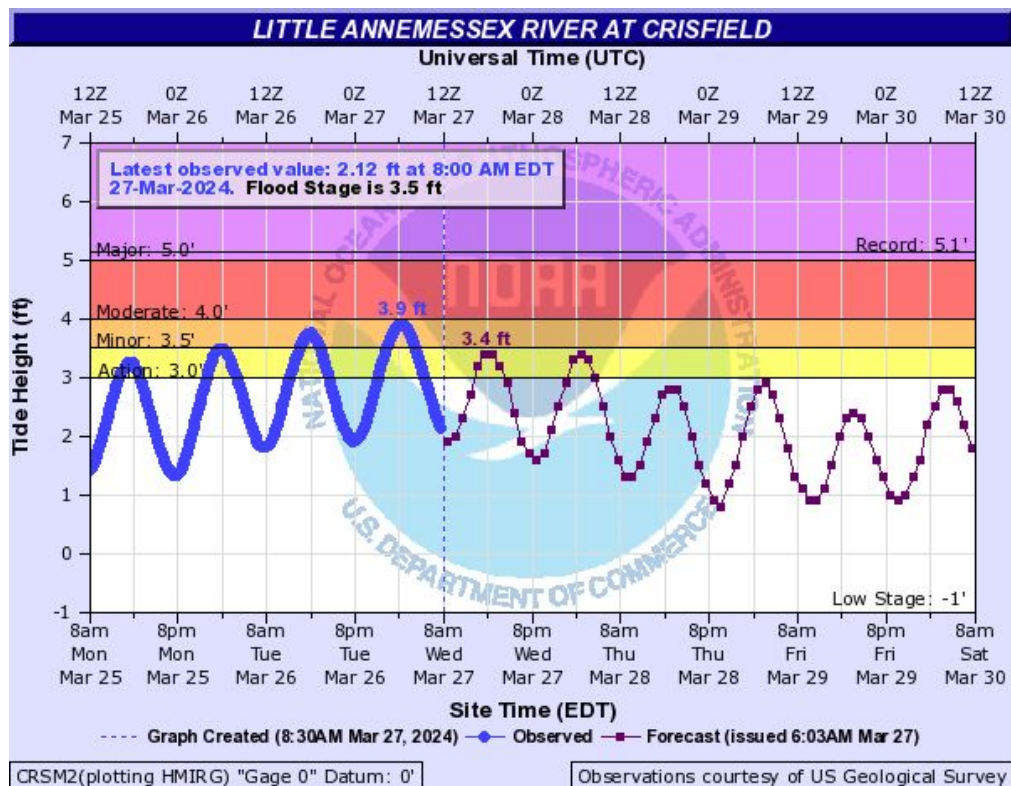




Tidal Overview - Upper Bay

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



Summary of Tidal Trends

- Moderate tidal flooding has ended.
- Nuisance to minor tidal flooding lingers into high tide later this afternoon/early evening across the upper Chesapeake Bay.

[Coastal Flood Webpage](#)



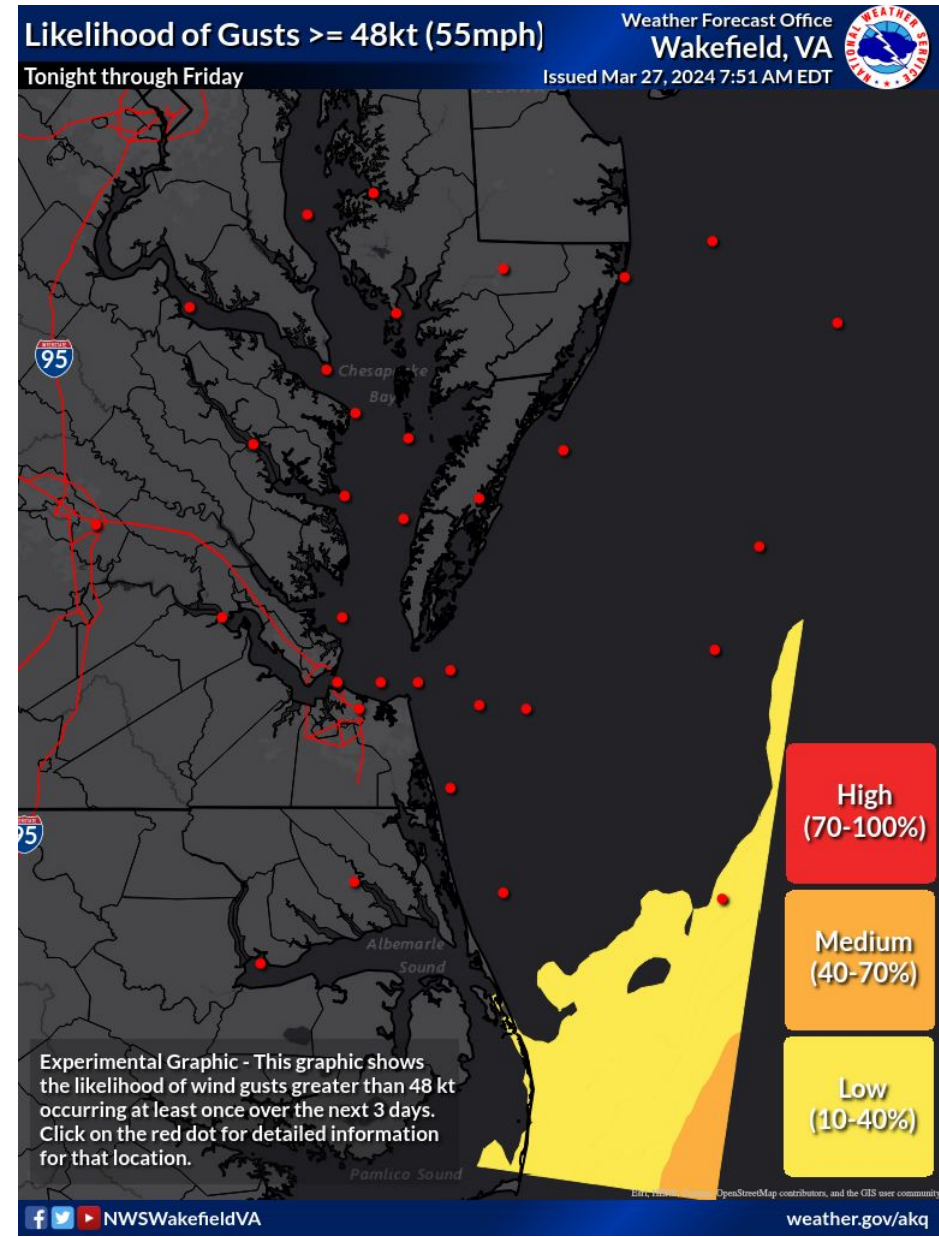
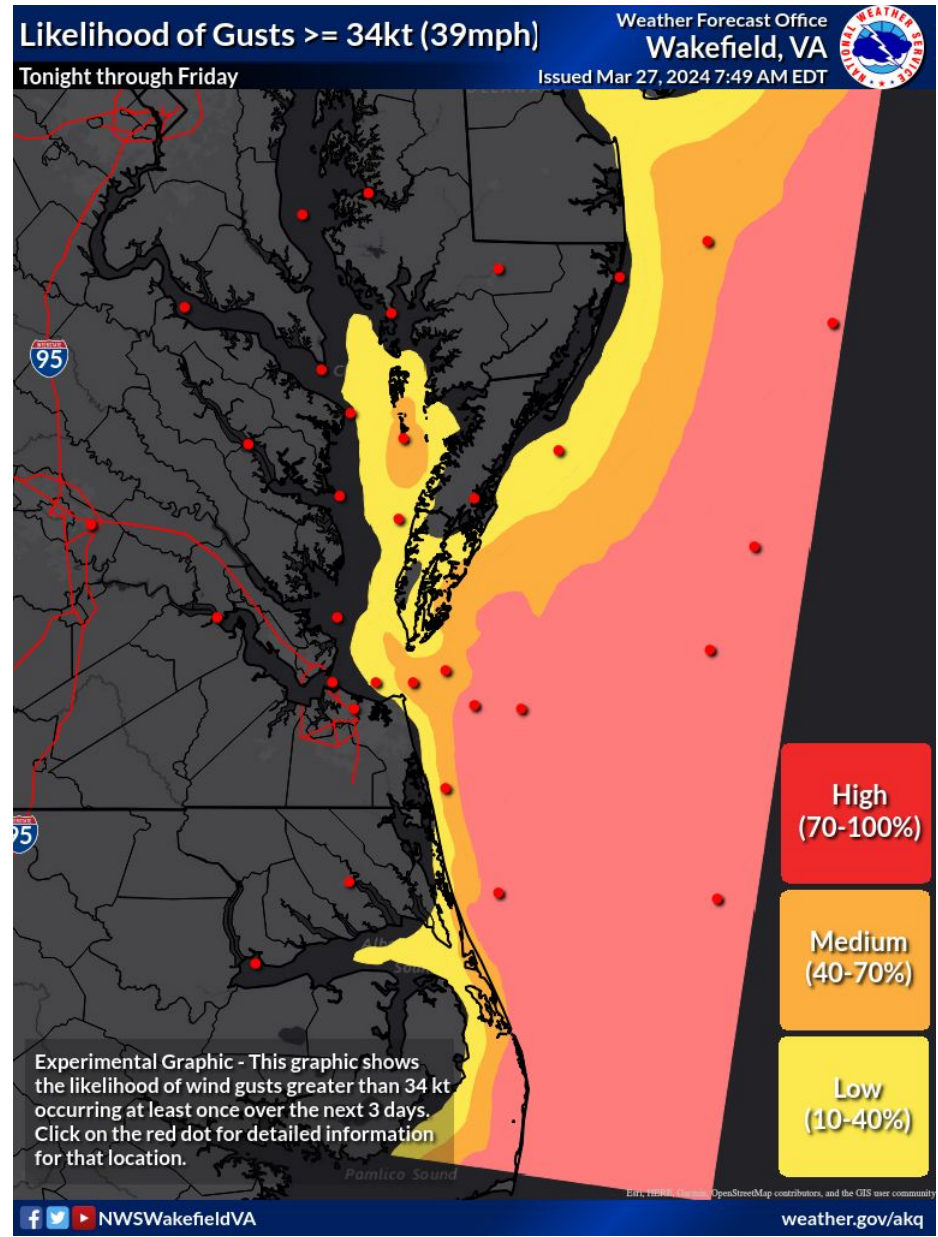
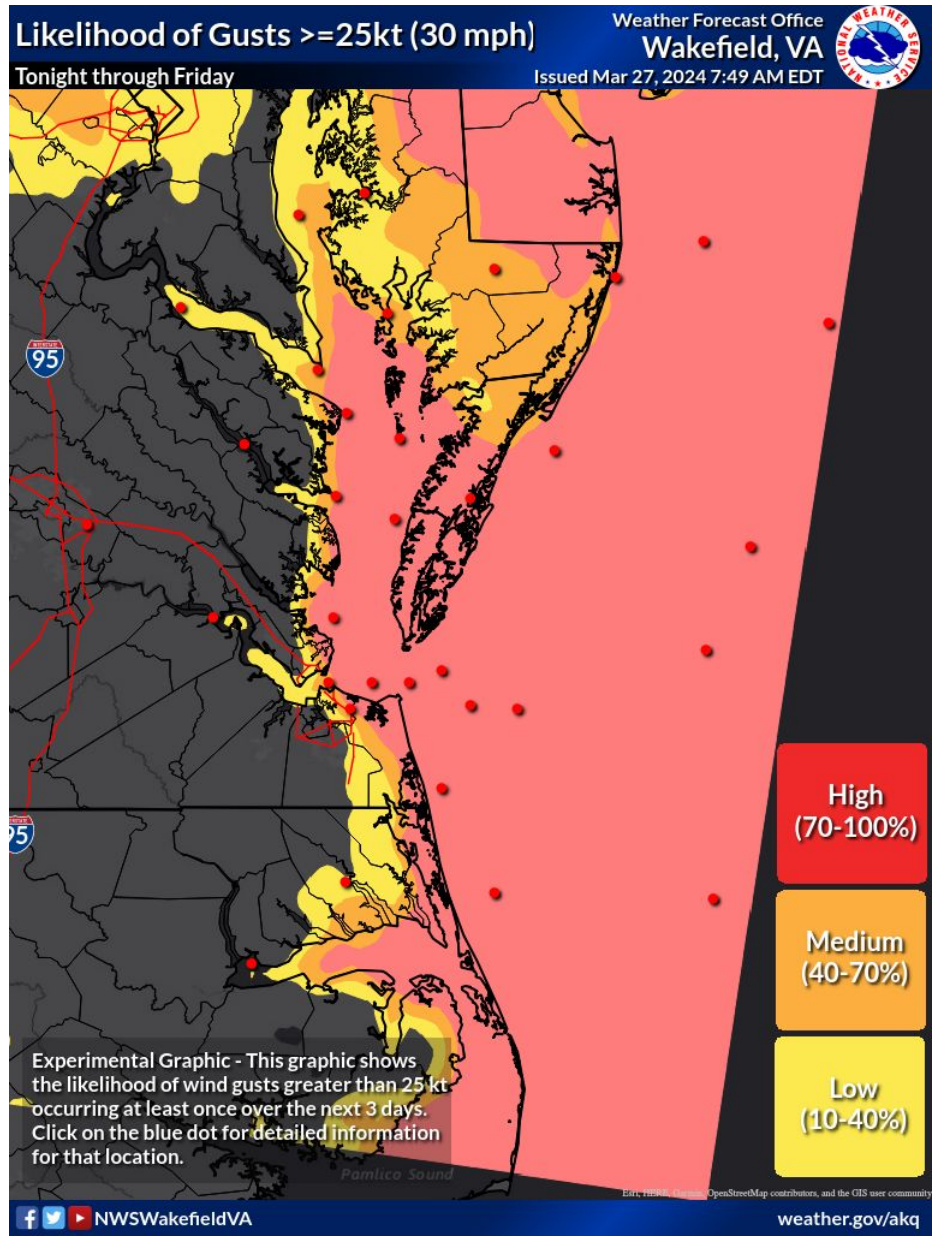
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National Weather Service
Wakefield, VA



Marine Wind Probabilities

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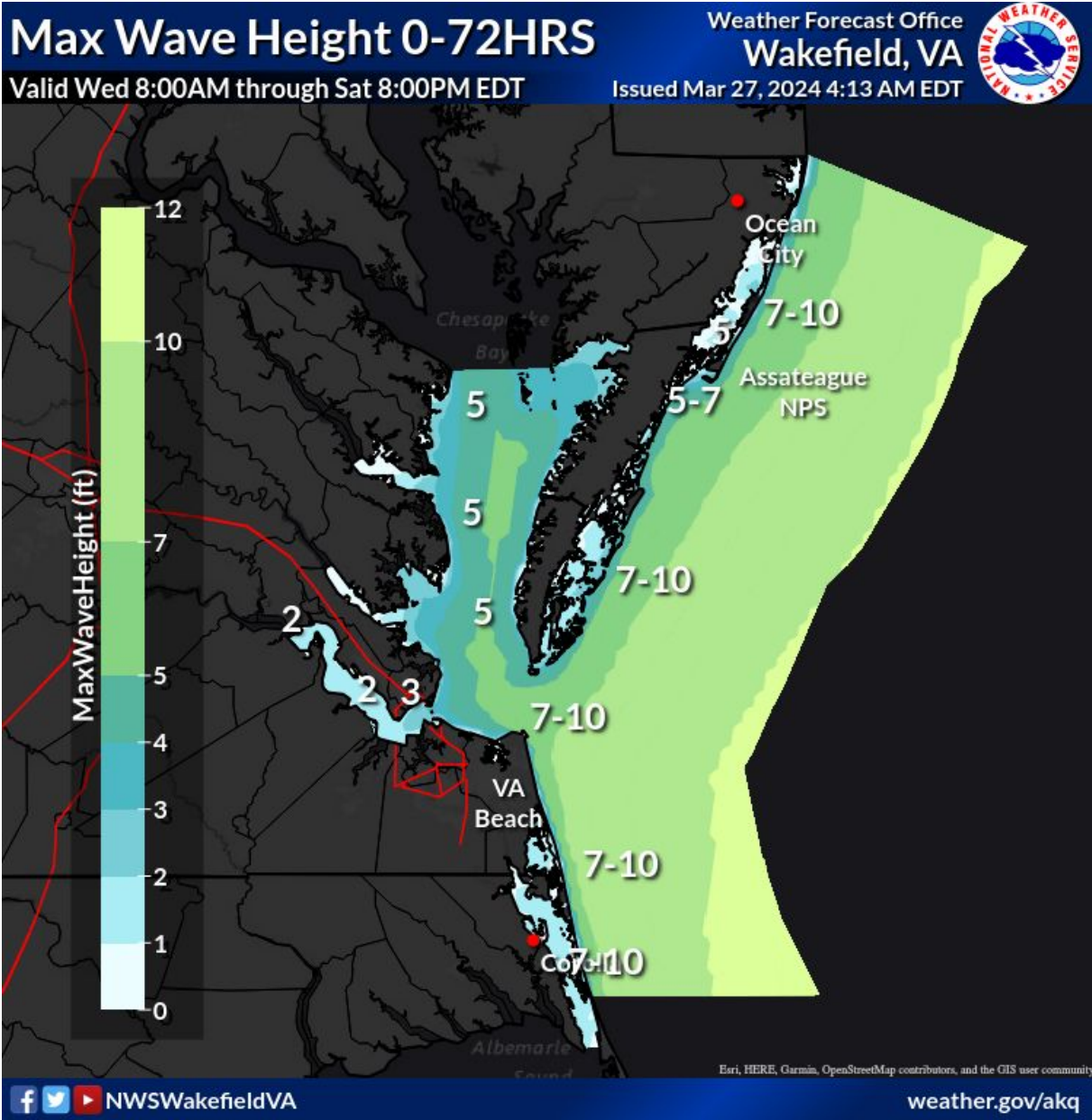
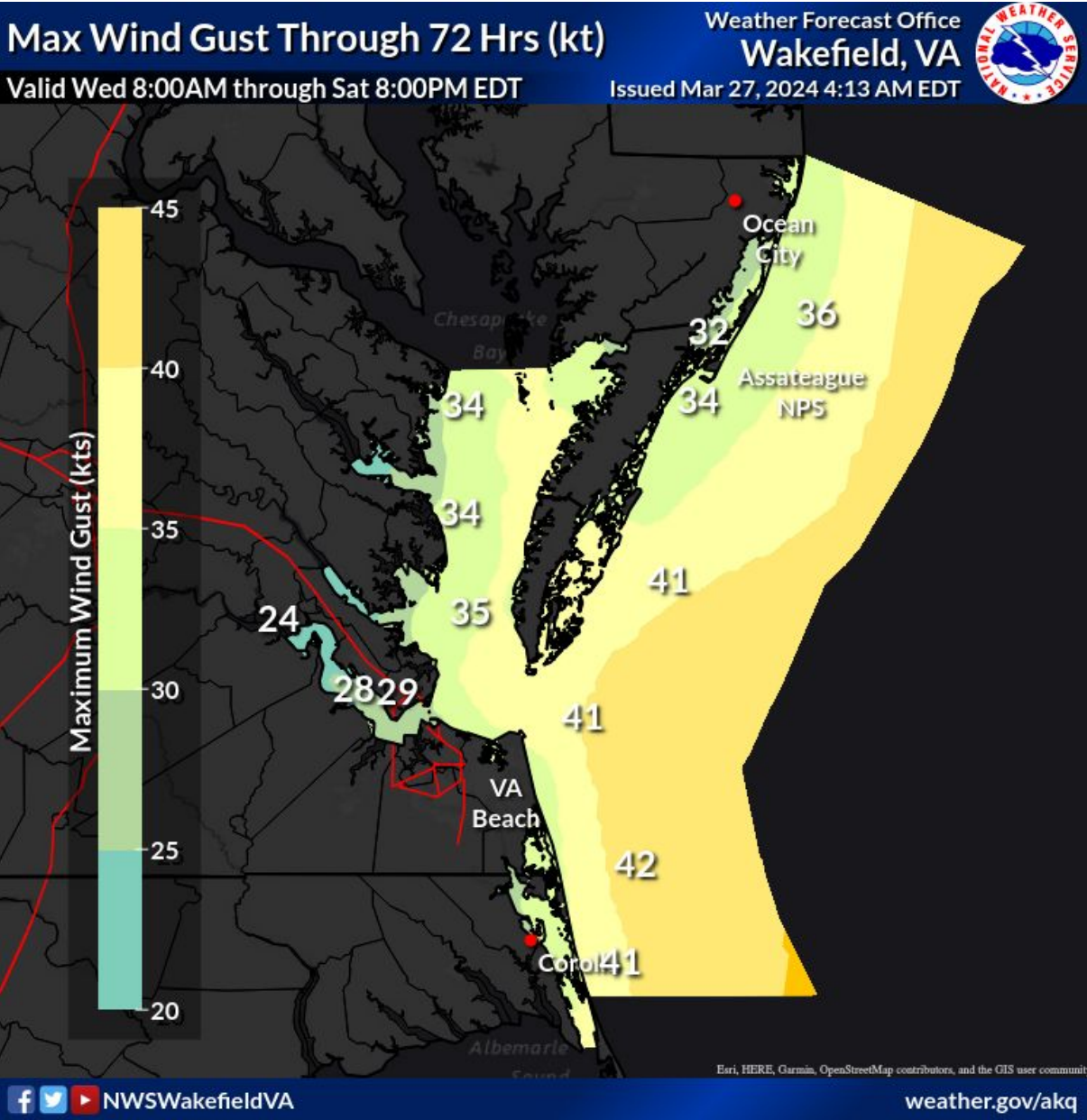
There is at least a medium chance of gale conditions Thursday night into early Friday morning, with the best chance south of Cape Charles.





Marine Threat Potential

March 27, 2024
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Key Points:

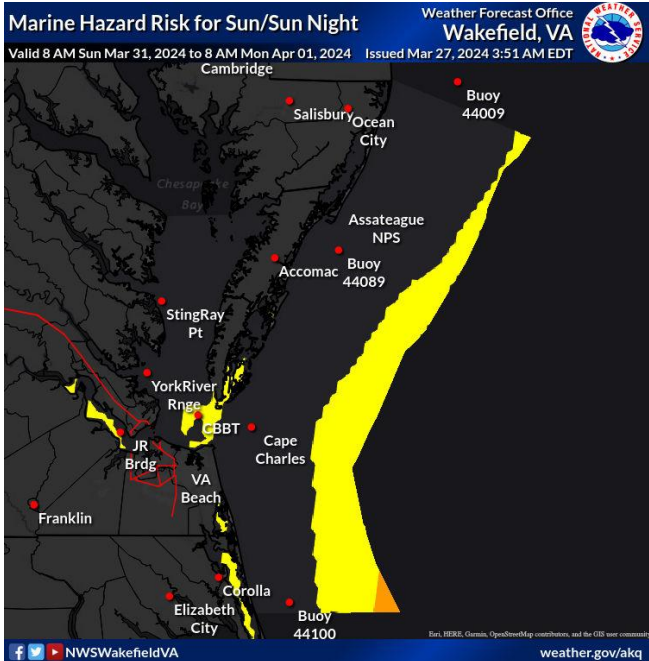
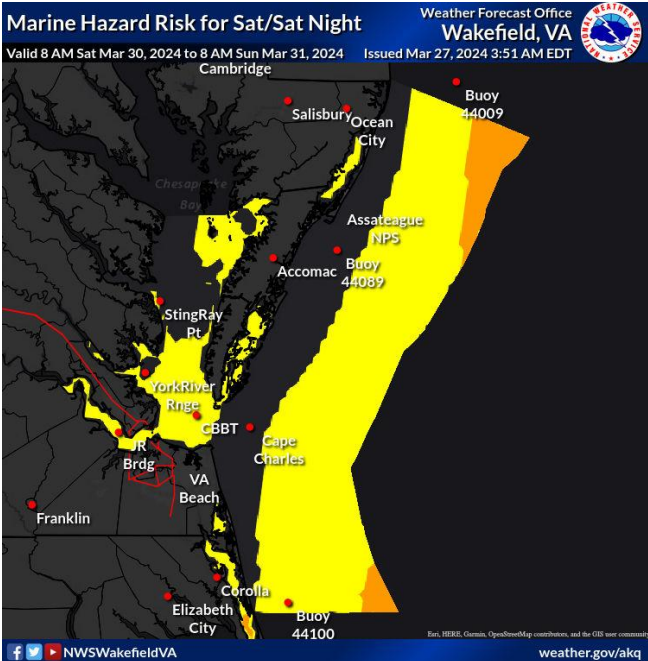
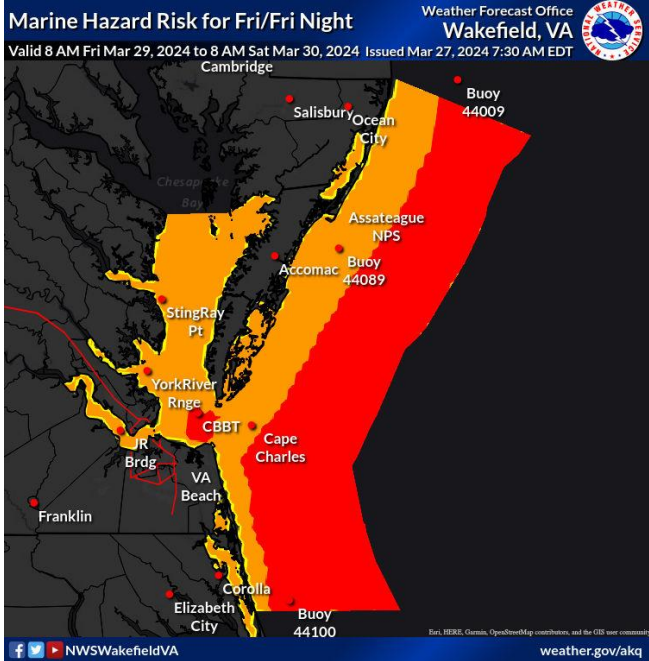
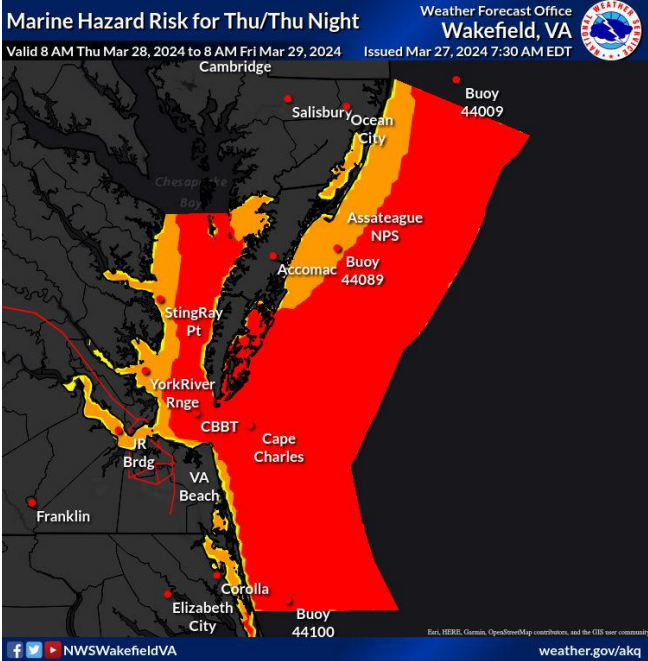
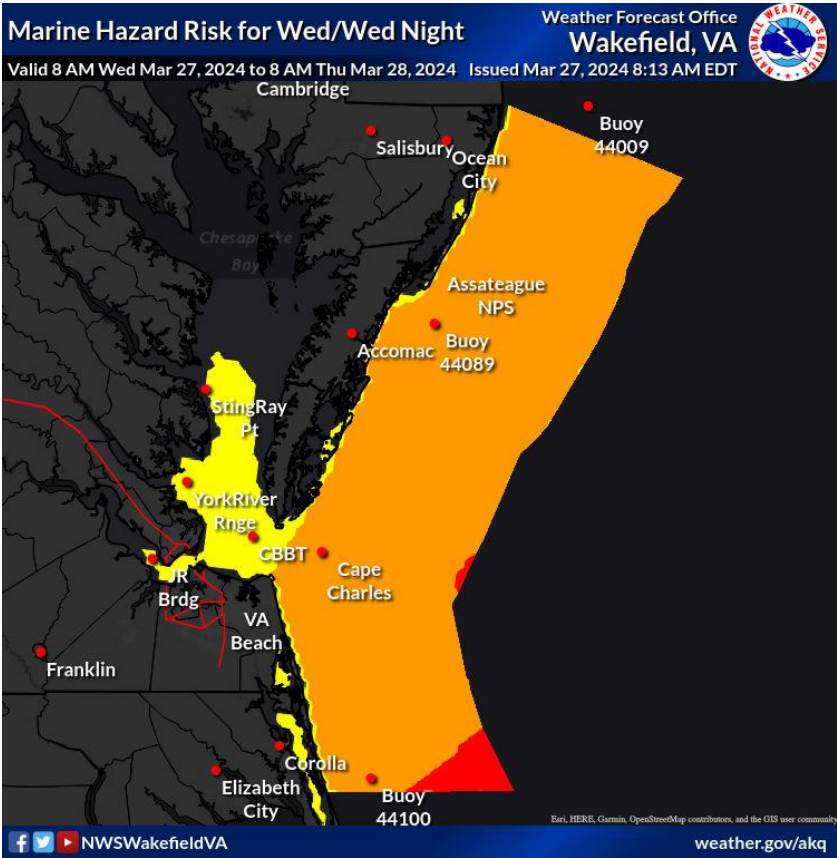
- Small Craft Advisories remain in effect for the ocean as seas remain elevated.
- Low pressure moves off the coast Thursday into Thursday night with a north to northwest wind increasing Thursday night into early Friday morning.
- A Gale Watch is in effect for all Atlantic coastal waters and mouth of the bay.

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



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

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Sustained Wind

Wind Speed Forecast

	3/27 Wed		3/28 Thu				3/29 Fri			
	12pm	6pm	12am	6am	12pm	6pm	12am	6am	12pm	6pm
CBBT	9↙	10↙	9↙	13↘	20↘	28↘	30↘	29↘	22↘	17↘
Cape Henry	8↙	10↙	9↙	14↘	20↘	26↘	30↘	30↘	22↘	16↘
Chesapeake Light	8↙	9↙	9↙	14↘	20↘	25↘	29↘	32↘	23↘	16↘
Chincoteague Shoal	8↙	8↙	7↙	10↘	15↘	18↘	22↘	26↘	23↘	18↘
Duck, NC	8↙	10↙	9↙	14↘	21↘	28↘	28↘	28↘	21↘	15↘
Fenwick Shoal	9↘	6↙	6↙	8↙	14↘	16↘	23↘	26↘	25↘	20↘
HRBT	8↙	12↙	10↙	14↘	18↘	23↘	22↘	22↘	18↘	16↘
JRB	7↙	10↙	8↙	13↘	17↘	22↘	21↘	18↘	18↘	17↘
New Point Comfort	7↙	9↙	8↙	13↘	20↘	23↘	23↘	24↘	20↘	16↘
Parramore Banks	8↙	8↙	7↙	12↘	16↘	20↘	24↘	28↘	23↘	16↘
Rappahannock Light	6↙	7↙	7↙	12↘	18↘	25↘	26↘	28↘	21↘	16↘
Tangier	6↙	6↙	7↙	9↙	18↘	24↘	25↘	28↘	22↘	16↘
Thimble Shoal	9↙	12↙	10↙	14↘	21↘	26↘	28↘	28↘	22↘	18↘

*Table values in mph
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Wind Gusts

Wind Gust Forecast

	3/27 Wed		3/28 Thu				3/29 Fri			
	12pm	6pm	12am	6am	12pm	6pm	12am	6am	12pm	6pm
CBBT	12↙	13↙	12↙	16↘	24↘	35↘	39↘	38↘	28↘	22↘
Cape Henry	10↙	13↙	12↙	17↘	24↘	33↘	39↘	39↘	28↘	21↘
Chesapeake Light	10↙	12↙	12↙	17↘	24↘	32↘	38↘	41↘	29↘	21↘
Chincoteague Shoal	10↙	10↙	9↙	13↘	18↘	23↘	29↘	35↘	29↘	23↘
Duck, NC	10↙	13↙	12↙	17↘	26↘	35↘	36↘	37↘	26↘	20↘
Fenwick Shoal	12↘	7↙	7↙	10↙	16↘	21↘	30↘	39↘	36↘	31↘
HRBT	10↙	15↙	13↙	17↘	24↘	30↘	29↘	29↘	24↘	22↘
JRB	9↙	14↙	10↙	17↘	23↘	30↘	28↘	25↘	25↘	23↘
New Point Comfort	9↙	12↙	10↙	16↘	25↘	30↘	31↘	32↘	25↘	21↘
Parramore Banks	10↙	10↙	9↙	15↘	21↘	25↘	31↘	37↘	29↘	21↘
Rappahannock Light	7↙	9↙	9↙	15↘	23↘	32↘	35↘	36↘	26↘	21↘
Tangier	7↙	7↙	9↙	12↘	23↘	31↘	33↘	36↘	28↘	21↘
Thimble Shoal	12↙	15↙	13↙	17↘	26↘	33↘	36↘	36↘	28↘	23↘

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**Created: 8 am EDT Wed 3/27/2024





Marine Wave Forecast Summary

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Wave Height Forecast										
	3/27		3/28				3/29			
	Wed		Thu				Fri			
	12pm	6pm	12am	6am	12pm	6pm	12am	6am	12pm	6pm
CBBT	3.0	2.0	2.0	3.0	4.0	5.0	5.0	5.0	4.0	3.0
Cape Henry	5.0	4.0	4.0	4.0	5.0	7.0	7.0	7.0	6.0	5.0
Chesapeake Light	6.0	6.0	5.0	5.0	6.0	8.0	9.0	9.0	7.0	6.0
Chincoteague Shoal	6.0	5.0	5.0	4.0	4.0	5.0	5.0	5.0	5.0	4.0
Duck, NC	5.0	5.0	5.0	5.0	5.0	7.0	7.0	7.0	6.0	5.0
Fenwick Shoal	7.0	6.0	5.0	4.0	5.0	6.0	6.0	6.0	6.0	5.0
HRBT	1.0	1.0	2.0	2.0	3.0	3.0	3.0	3.0	2.0	2.0
JRB	1.0	1.0	1.0	1.0	1.0	2.0	2.0	2.0	2.0	1.0
New Point Comfort	1.0	1.0	1.0	2.0	3.0	3.0	3.0	3.0	3.0	2.0
Parramore Banks	5.0	5.0	5.0	4.0	4.0	6.0	6.0	6.0	5.0	4.0
Rappahannock Light	1.0	1.0	1.0	2.0	4.0	4.0	5.0	5.0	4.0	3.0
Tangier	1.0	1.0	1.0	2.0	3.0	4.0	4.0	4.0	3.0	2.0
Thimble Shoal	2.0	2.0	2.0	3.0	4.0	5.0	5.0	5.0	4.0	3.0

*Table values in feet
**Created: 8 am EDT Wed 3/27/2024
***Values are maximums over the period beginning at the time shown.



Key Messages

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- Nuisance to minor tidal flooding continues into tonight/early Thursday's high tide cycle over the upper Chesapeake Bay.
- Another area of low pressure lifts across the area tonight into Thursday. This system brings additional rainfall to the area today through Thursday afternoon, some of which could fall heavily at times Wednesday night into Thursday. A **Flood Watch** has been added for much of southeastern Virginia and northeast North Carolina.
- This additional rainfall could result in minor flooding of urban or flood-prone areas, along with elevated river levels later this week.





Contact and Next Briefing Information

March 27, 2024
9:00 AM

For NWS Wakefield, Virginia



Briefing Webpage

→ [NWS Wakefield Briefing](#)



Next Briefing

→ By 5:00 PM March 27
→ Method: Email



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



Contact Information

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