



# Tropical Storm Hermine Briefing/Overview for Eastern Virginia Bay and Coastal Areas

## 7 am September 3, 2016



### Information Sources Used in this Overview

- Overview [Hermine Briefing Page](#) [Latest information from NHC](#)
- Rainfall Forecasts [NWS Wakefield Rain Forecasts Page](#)
- Winds [NHC Wind Probabilities](#) [Forecast Winds](#)
- Storm Surge/  
Coastal Flooding [Tides and Coastal Flooding Page](#) [New! NHC Inundation information](#)
- Tornadoes [Severe Thunderstorms Page](#)

Coastal VA Locations	Rainfall (Event Total)	Rainfall Flooding	Winds (mph) - Friday night - Saturday	Storm Surge (MLLW)	Waves (ft)	Tornadoes
<i>Southside Hampton Roads</i>	4" - 7"	Flash Flooding Possible	E / NE 35 - 40; gusts 50 to 60	5.5' - 7.0'; <b>Major / Severe</b>	15+ (Ocean) 6 - 9 (Bay)	None
<i>VA Peninsula</i>	2" - 5"	Flash/River Flooding Possible	E / NE 35; gusts 50	5.5' - 6'; <b>Major / Severe</b>	6 - 8 (Bay) 4 - 6 (Rivers)	None
<i>Gloucester/Mathews/Middlesex</i>	1.50" - 4"	Minor Flooding	E / NE 30 - 35; gusts 45 - 50	5' - 5.5'; <b>Moderate (Severe psbl)</b>	5 - 7 (Bay) 3 - 5 (Rivers)	None
<i>Essex/King &amp; Queen/King William</i>	1"-2"	Minor Flooding	E / NE 25 -30; gusts 35 - 40	3' - 3.5'; <b>Minor to Moderate Flood</b>	2 - 3	None
<i>Lancaster/Northumberland</i>	1"-3"	Minor Flooding	E / NE 25-35; gusts 45 - 50	3' - 3.5'; <b>Minor to Moderate Flood</b>	5 - 7 (Bay) 3 - 5 (Rivers)	None
<i>Richmond/Westmoreland</i>	0.50" W; 2" E	Minor Flooding	E / NE 25; gusts 35 - 40	3'; <b>Minor Flooding</b>	2- 3 (Rivers)	None
<i>VA Eastern Shore</i>	3" - 6"	Flash/River Flooding Possible	E / NE 40; gusts 55	7' to 8.5'; <b>Major / Severe</b>	15+ (Ocean) 6 - 8 (Bay)	None
<i>Isle of Wight/Southampton/Franklin</i>	2" - 5"	Flash/River Flooding Possible	E / NE 25 - 30; gusts 40	5' - 5.5'; <b>Moderate to Severe</b>	3 - 5 (James Rvr)	None
<i>Surry/Sussex</i>	1" - 3"	Minor Flooding	E / NE 25; gusts 35 - 40	4.5' - 5.5'; <b>Moderate to Severe</b>	2 - 4 (James Rvr)	None

**Overall Impacts:** *High winds, storm surge and waves are the primary threats lasting through today. Expect Tropical Storm Conditions with gusts up to 45 to 60 mph. Water levels will reach Moderate to Major / Severe flood levels over the lower Bay and the James and York river. In some areas this could be the worst coastal flooding experienced since Hurricane Irene. Water levels over the middle and upper Bay are expected to reach Moderate flood levels. Severe impacts could linger along the Eastern Shore into Sunday with flooding and high winds.*

**Rain & Flooding** - Between 1 to 3 inches of rain is possible well inland, with 3"-6" close to the Bay and coast, based on the forecast storm track. Minor flooding from rainfall is possible well inland, with more significant flash flooding possible through early afternoon closer to the coast and Bay.

**Storm Surge** - A storm surge of 2.5 to 4.0 ft will push coastal flooding to **Moderate** to **Major / Severe** levels Saturday. The highest water levels will occur with the high tide late this morning/afternoon for most areas, though additional moderate to severe flooding will persist tonight and Sunday.

**Winds** - Sustained winds of 30 to 45 mph are expected with gusts to 45 to 60 mph. Some power outages can be expected along with some downed trees and power lines.

**Tornadoes** - Conditions are not favorable for tornadoes.



# Tropical Storm Hermine Briefing/Overview for Inland Virginia Areas

## 7 am September 3, 2016



### Information Sources Used in this Overview

<p><b>Overview</b></p> <p><b>Rainfall Forecasts</b></p> <p><b>Winds</b></p> <p><b>Storm Surge/ Coastal Flooding</b></p> <p><b>Tornadoes</b></p>	<p style="text-align: center;"><a href="#">Hermine Briefing Page</a></p> <p style="text-align: center;"><a href="#">NWS Wakefield Rain Forecasts Page</a></p> <p style="text-align: center;"><a href="#">NHC Wind Probabilities</a></p> <p style="text-align: center;"><a href="#">Tides and Coastal Flooding Page</a></p> <p style="text-align: center;"><a href="#">Severe Thunderstorms Page</a></p>	<p style="text-align: center;"><a href="#">Latest information from NHC</a></p> <p style="text-align: center;"><a href="#">Forecast Winds</a></p> <p style="text-align: center;"><a href="#">New! NHC Inundation information</a></p>
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Inland VA Locations	Rainfall (Event Total)	Rainfall Flooding	Winds (mph) - Fri Night - Saturday	Storm Surge (abv normal)	Tornadoes
<u><a href="#">Henrico/Hanover/Richmond city</a></u>	0.50" NW 1.00" SE	Poor Drainage	N 15 to 25; gusts 35	N/A	None
<u><a href="#">Charles City/New Kent</a></u>	1"-2"	Poor Drainage	N to NE 20 - 25; gusts 35-40	2-3 feet abv. normal <b>Moderate to Severe</b>	None
<u><a href="#">Caroline</a></u>	0.50" or less	None	N to NE 15 - 20; gusts 30	N/A	None
<u><a href="#">Chesterfield/Prince George/Tri-Cities</a></u>	0.50" NW 1.50" SE	Poor Drainage	N 15 to 25; gusts 35	2 - 3 feet abv. normal <b>Moderate to Severe Flood</b>	None
<u><a href="#">Brunswick/Greenville/Emporia</a></u>	1.00"- 3.00"	Poor Drainage	N 20 - 25; gusts 35	N/A	None
<u><a href="#">Louisa/Fluvanna/Goochland</a></u>	0.25" or less	None	N 15; gusts 25	N/A	None
<u><a href="#">Cumberland/Prince Edward</a></u>	0.25" or less	None	N 15; gusts 25	N/A	None
<u><a href="#">Powhatan/Amelia/Nottoway</a></u>	0.50" to 1.00"	None	N 15 to 20; gusts 30	N/A	None
<u><a href="#">Lunenburg/Mecklenburg</a></u>	0.50"-1.00"	None	N 15 to 20; gusts 30	N/A	None

**Overall Impacts:** *Gusty winds which could be strong at times are expected across Central VA. Impacts are expected to be very minor west of interstate 95, and minor along and east of I-95. The strongest winds and heaviest rain should remain closer to the coast based on the forecast track and intensity of the storm system.*

**Rain & Flooding** - Sporadic areas of minor and poor draining flooding is possible in areas which receive over 2" of rainfall, though most areas will experience little to no flooding given recent dry conditions.

**Storm Surge** - 2 to 3 feet above normal tides on the James River. Moderate to locally severe flooding possible with this afternoon's high tide

**Winds** - 15 to 25 mph with gusts to 35 to 40 mph; highest east of I-95, lowest Piedmont areas.

**Tornadoes** - None



# Tropical Storm Hermine Briefing/Overview for Eastern NC and Maryland

## 7 am September 3, 2016



### Information Sources Used in this Overview

Overview

[Hermine Briefing Page](#)

[Latest information from NHC](#)

Rainfall Forecasts

[NWS Wakefield Rain Forecasts Page](#)

Winds

[NHC Wind Probabilities](#)

[Forecast Winds](#)

Storm Surge/  
Coastal Flooding

[Tides and Coastal Flooding Page](#)

[New! NHC Inundation information](#)

Tornadoes

[Severe Thunderstorms Page](#)

NC Locations	Rainfall (Event Total)	Rainfall Flooding	Winds (mph) Friday night / Saturday	Storm Surge (ft) (reference MLLW)	Waves (ft)	Tornadoes
<i>Currituck/Camden/Pasquotank</i>	5" to 8 "	Flash Flooding Psbl	E / NE 40 - 45; gusts 50 - 60	5.5' to 6.5' Ocean <b>(Moderate to Severe)</b> 1 to 2 Sound <b>(Moderate)</b>	Ocean: 15+ ft Sound: 3 to 4 ft	None
<i>Chowan/Gates/Perquimans</i>	5" to 8 "	Flash Flooding Psbl	E / NE 40 - 45; gusts 50 - 55	1 foot above normal	2 - 3 ft (Sound)	None
<i>Bertie/Hertford/Northampton</i>	3"-5" NW 5"-7" SE	Flash Flooding Psbl	E / NE 35; gusts 45 - 50	1 foot above normal	N/A	None

**Overall Impacts:** *High winds, storm surge and waves are the primary threats lasting through today. Expect Tropical Storm Conditions with gusts up to 45 to 60 mph. Water levels will reach moderate to severe flood levels along the coast and moderate levels in Currituck Sound.*

**Rain & Flooding** - Heavy rain up to 5 to 8 inches is possible causing flooding in some areas. Flooding from rainfall could be exacerbated due to the high tides.

**Storm Surge** - An average of 2 to 3.5 ft of surge along the coast will result in Moderate to Severe coastal flooding. Waves of 10 - 15+ ft along the coast will result in significant beach erosion.

**Winds** - Tropical storm force winds expected especially near the sounds and along the coast today. Some power outages can be expected along with some downed trees and power lines.

**Tornadoes** - Conditions unfavorable for tornadoes.

MD Locations	Rainfall (Event Total)	Rainfall Flooding	Winds (mph) Saturday - Sunday	Storm Surge (ft) (reference MLLW)	Waves (ft)	Tornadoes
<i>Worcester/Ocean City</i>	3" to 6"	Minor	NE 35 - 40; gusts 45-55; becoming N/NNW	5.5' - 6.5'; <b>Major / Severe</b>	Ocean: 15+ ft Bay: 3 - 4 ft	None
<i>Wicomico/Somerset</i>	2" to 5"	Minor	NE 30; gusts 40-45; becoming N/NNW	3' - 4.0'; <b>Minor possible</b>	Bay: 5 - 7 ft	None
<i>Dorchester</i>	1" to 3"	Minor	NE 25 - 30; gusts 40-45; becoming N/NNW	3' - 3.5'; <b>Minor possible</b>	Bay: 5 - 7 ft	None

**Overall Impacts:** *Strong winds, storm surge and waves are the primary threats lasting through Sunday. Tropical Storm Conditions expected, with gusts up to 50+ mph today and Sunday. Water levels will reach Minor to moderate flood levels this Afternoon/Evening with Moderate to Severe flooding possible Sunday and Monday.*

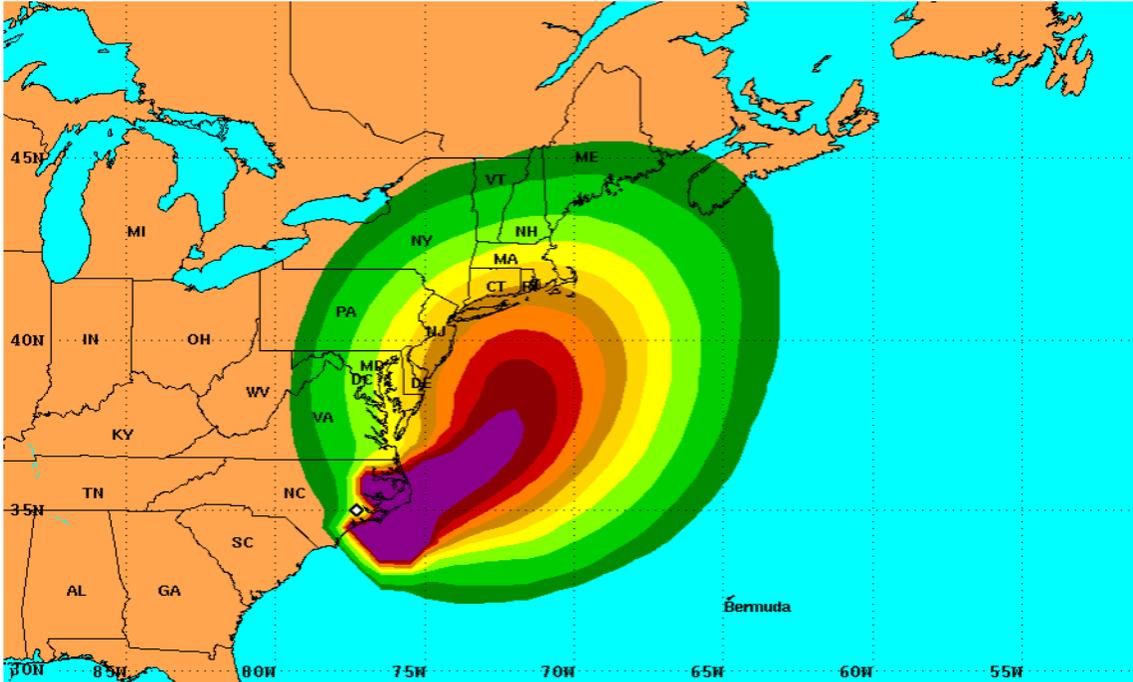
**Rain & Flooding** - 1 to 4 inches of rain is possible, highest east of Rt. 13. Minor flooding will be possible.

**Storm Surge** - 1 to 1.5 feet above normal on the bayside - minor flooding possible. Up to 2.5 to 3.5 feet of storm storm surge along the coast - Minor to Moderate flooding today and tonight, Major/severe flooding possible Sunday into Monday.

**Winds** - Tropical storm force winds along the immediate coast, with lower winds inland gusting to 40 to 45 mph.

# Wind Probabilities

**Tropical Storm Force Wind Speed Probabilities**  
For the 120 hours (5 days) from 2 AM EDT Sat Sep 3 to 2 AM EDT Thu Sep 8

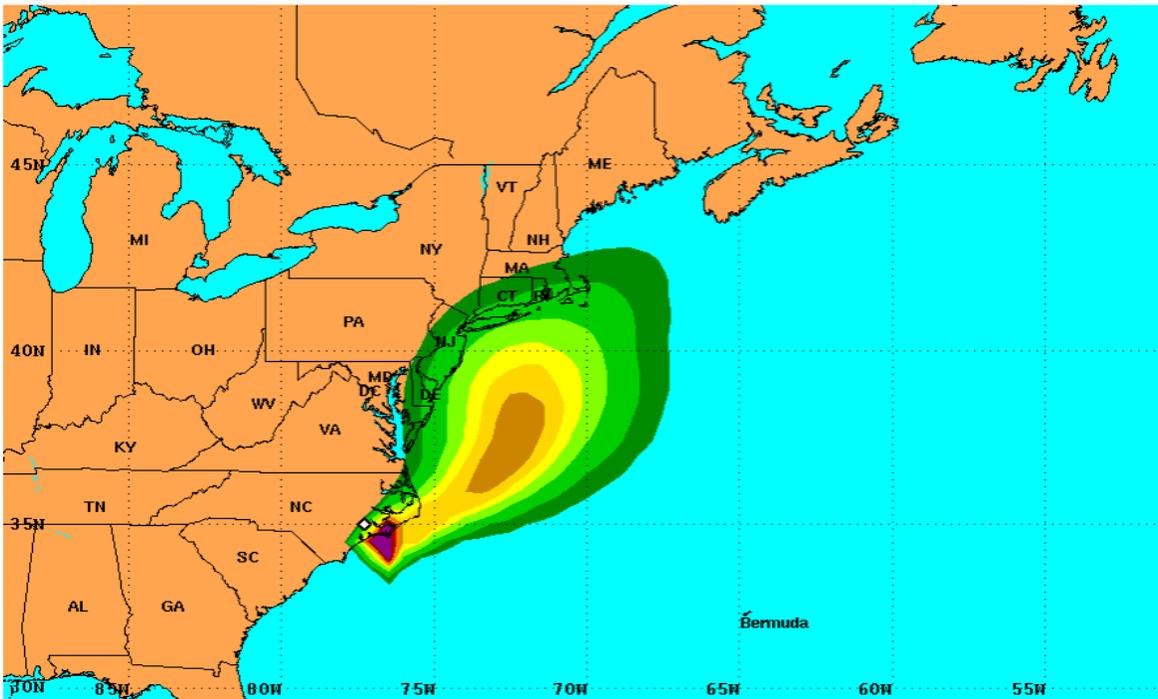


◇ indicates TROPICAL STORM HERMINE center location at 2 AM EDT Sat Sep 3 2016 (Forecast/Advisory #24)

5% 10% 20% 30% 40% 50% 60% 70% 80% 90% 100%

## 50-knot Wind Speed Probabilities

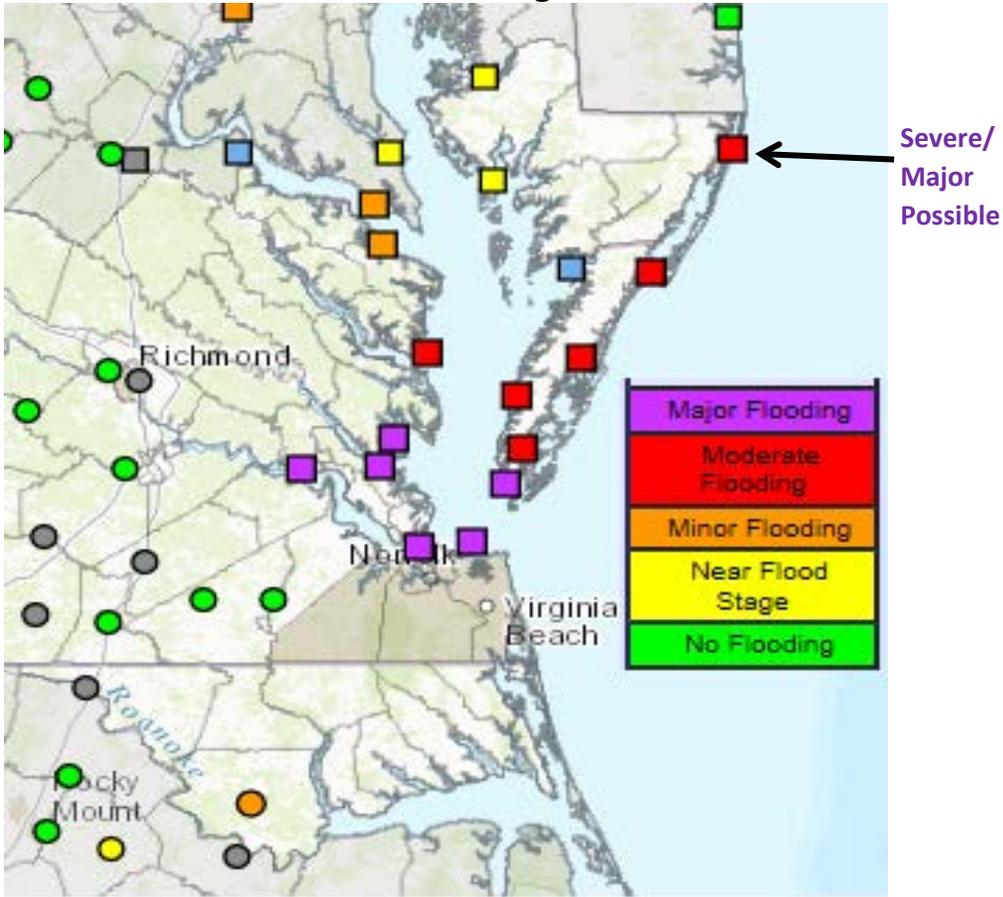
For the 120 hours (5 days) from 2 AM EDT Sat Sep 3 to 2 AM EDT Thu Sep 8



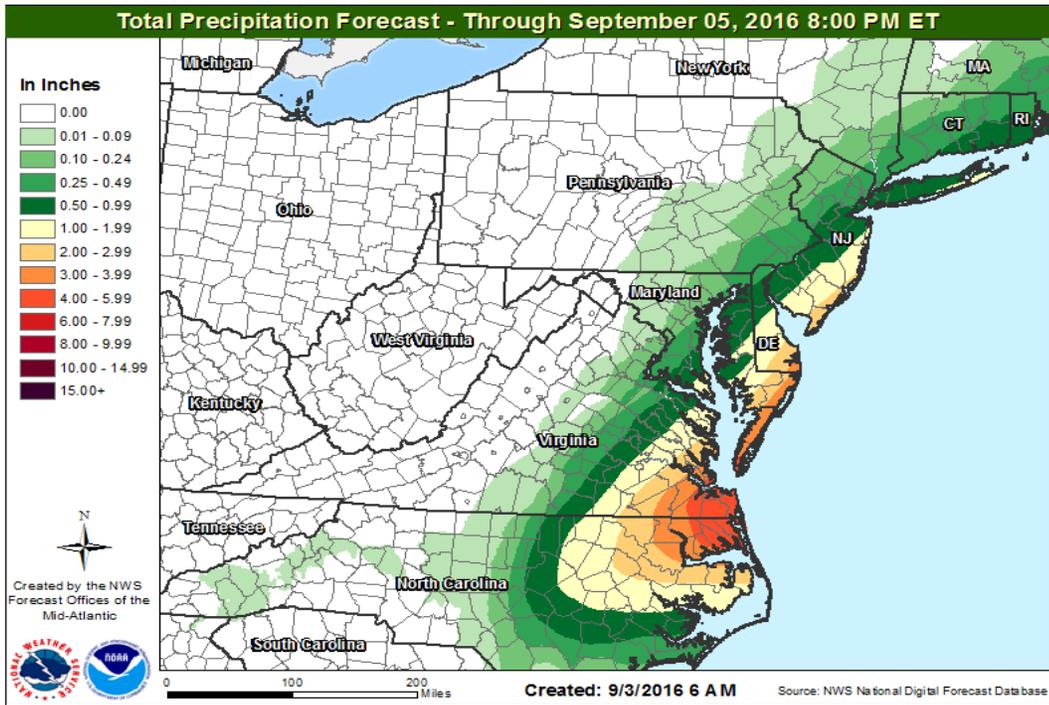
◇ indicates TROPICAL STORM HERMINE center location at 2 AM EDT Sat Sep 3 2016 (Forecast/Advisory #24)

5% 10% 20% 30% 40% 50% 60% 70% 80% 90% 100%

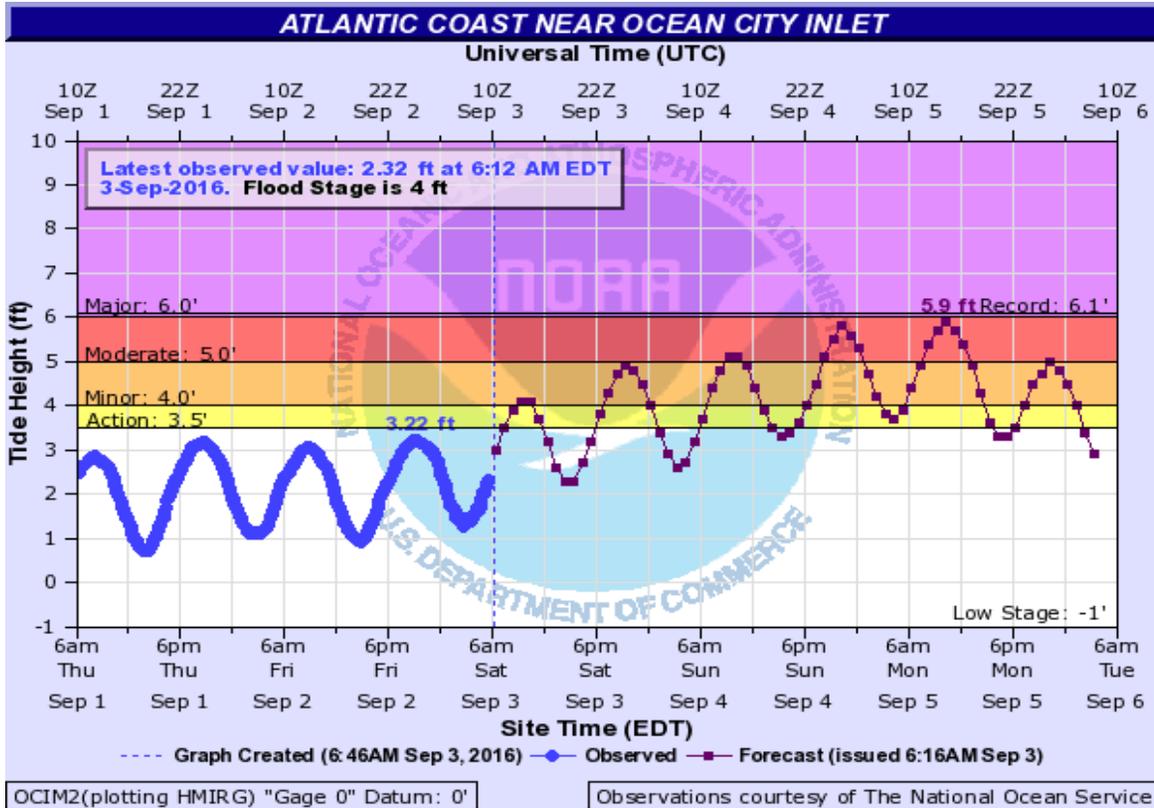
### Flooding



### Forecast Additional Rainfall



## Ocean City Water Level Forecast



## Sewells Point Water Level Forecast

