

Nuisance Flood Plan – Monitoring Report

2022 Quarterly Threshold Review

Q1	Q2	Q3	Q4
<u>1</u> High Tide <u>2</u> Heavy Rainfall >1” <u>0</u> days >1’ Depth <u>1</u> day Duration <u>avg</u> Extent <u>1/Qtr</u> Frequency 1 NF Event	<u>3</u> High Tide <u>2</u> Heavy Rainfall >1” <u>0</u> days >1’ Depth <u>3</u> day Duration <u>avg</u> Extent <u>1/Qtr</u> Frequency 1 NF Event	<u> </u> High Tide <u> </u> Heavy Rainfall >1” <u> </u> Depth <u> </u> Duration <u>avg</u> Extent <u>/Qtr</u> Frequency NF Events	<u> </u> High Tide <u> </u> Heavy Rainfall >1” <u> </u> Depth <u> </u> Duration <u>avg</u> Extent <u>/Qtr</u> Frequency NF Events

	Nuisance Flood Area (Tidal)	Special Flood Hazard Area (FEMA 100 year storm)
Frequency	3.7 times per year average	0.1 times per year average
Depth	1 foot	2 to 4+ feet
Duration	One tide cycle (2 to 3 hours)	Multiple tide cycles (1 to 3 days)
Extent	Area 72 acres Buildable % 4% Structures 450	Area 1,157 acres Buildable % 58% Structures 2,500

- Tracking the number of minor flooding days per year, and comparing prior years of data from the tide gauge provides an important planning tool to identify changing conditions. New community responses may be initiated when:

	2021 Annual
✓ FREQUENCY - Nuisance Flooding exceeds 10 to 12 events per year	11 events, only 3 events exceed the Nuisance Flooding threshold (2.3’ NAVD88) based on tidal influence
✓ DEPTH - Flood depths during nuisance flooding events reach 2 feet deep (moderate flooding) on a sustained annual basis	Tidal events do not exceed Minor Flooding, Additional study required for rainfall events
✓ DURATION - Nuisance flood duration regularly exceeds one tide cycle	Two extended events February 1-3, October 28-30
✓ EXTENT - When the extent of local nuisance flooding doubles in area, or exceeds 10% of the community buildable area	Typical Minor Flooding events only during this period, Additional study required for area comparison

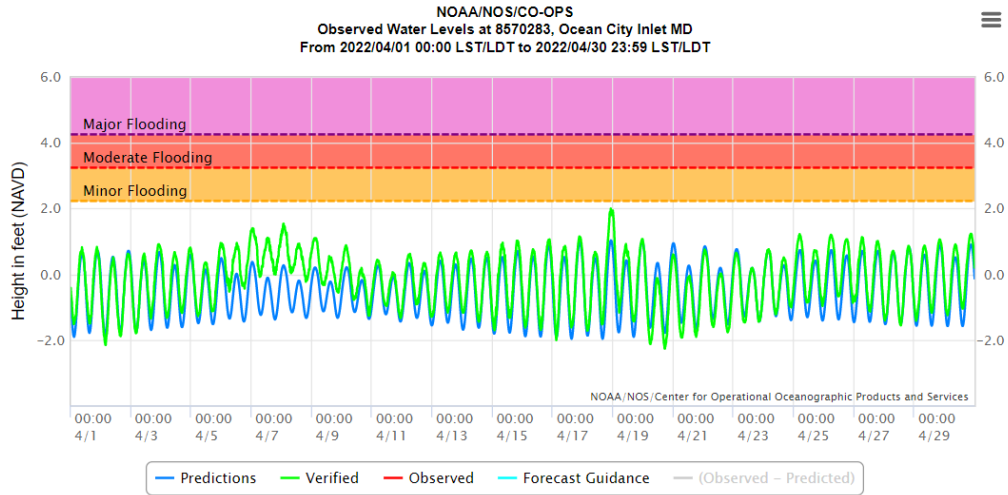
- When any one or more annual threshold(s) are exceeded, the Nuisance Flood Plan work group will meet to evaluate the data and community concerns, and will present a report to the Mayor and City Council with recommendations for action.

Stage	NWS Elevation (MLLW datum)	FEMA Elevation (NAVD88 datum)
Major	6.0+ feet	4.3+ feet
Moderate	5.0 feet	3.3 feet
Minor	4.0 feet	2.3 feet
Action	3.5 feet	1.3 feet

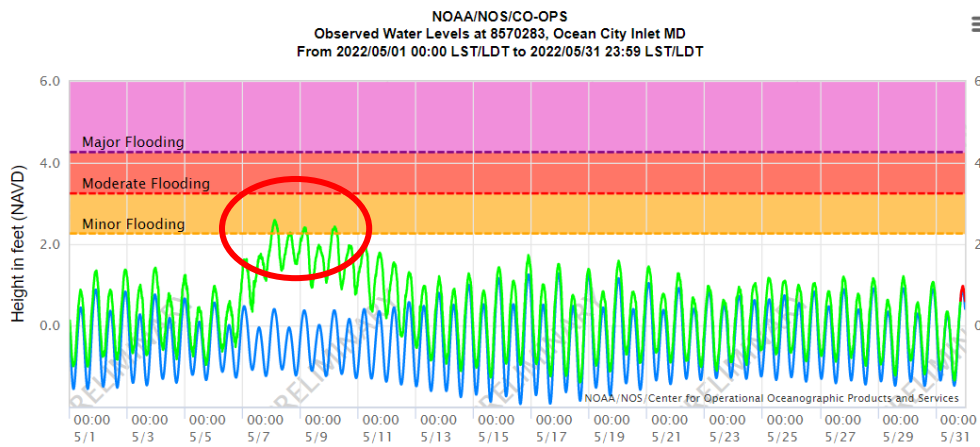
NWS	Elevation (Feet above MHHW)	Elevation (NAVD)	Event Date	Rainfall	Event Type	MyCoast	
			6.16.2022	1.62			
			5.16.2022	0.94			
			5.8.2022	0.73	Coastal Low Pressure	*	
			3.12.2022	1.06			
		2.54	1.4.2022	1.46	Winter Storm		
Minor Flooding		2.95	10/30/2021	1.14"	Coastal Low Pressure	*	
		2.67	10/1/2021		King Tide and Wind		
			9/9/2021	1.91"	TS Ida (remnant)		
			8/2/2021	1.95"	TD Fred (remnant)		
			7/30/2021	1.02"	Thunderstorm		
			7/9/2021	0.8"+	TS Elsa		
			6/9/2021	1.3"	Thunderstorm		
			5/29/2021	0.79"	High Tide plus rainfall event (2")		
			4/25/2021	0.46"			
			3/18/2021	1.43"			
			2.71	2/1/2021	0.93"	Nor'easter WS Orlena	*
		3.94	2.21	12/17/2020		Winter Solstice High Tide	
		4.27	2.53	10/30/2020	1.98"	Rainfall	
		3.86	2.13	9/2/2020		H Teddy	*
		3.90	2.17	9/17/2020	1.38"	Coastal Flood Advisory	
		4.03	2.30	8/17/2020		Coastal Storm	
				8/4/2020	1.23"	TS Isaias 1.23" Rainfall Wind	
				7/10/2020	1.92"	TS Fay 5" Rainfall Event	
				7/7/2020	2.56"	Rainfall	*
		4.02	2.29	4/4/2020		Coastal Storm	*
		4.10	2.37	12/2/2019		Winter Storm	
		4.30	2.57	1/18/2019		Coastal Storm	
		4.72	2.99	10/12/2019		TS Melissa	
		4.89	3.16	10/1/2019		Coastal Storm	
		4.85	3.12	10/1/2019		Coastal Storm	
		4.64	2.91	10/10/2019		Coastal Storm	
		4.32	2.59	9/6/2019	1.63"	H Dorian 1.63" Rainfall	
		4.27	2.54	10/27/2018		Noreaster	
		4.06	2.33	10/12/2018		TS Michael	
		4.58	2.85	9/9/2018		H Florence/Isaac/Helene	
				6/9/2018	7.5"	7.5" Rainfall Event	
		4.01	2.28	3/2/2018		Noreaster	
	4.35	2.62	3/7/2018		Noreaster, TS Riley		
	4.09	2.36	1/8/2017		Winter Storm		
	4.47	2.74	9/19/2017		TS Jose		
			7/28/2017	1.76"	1.76" Rainfall		

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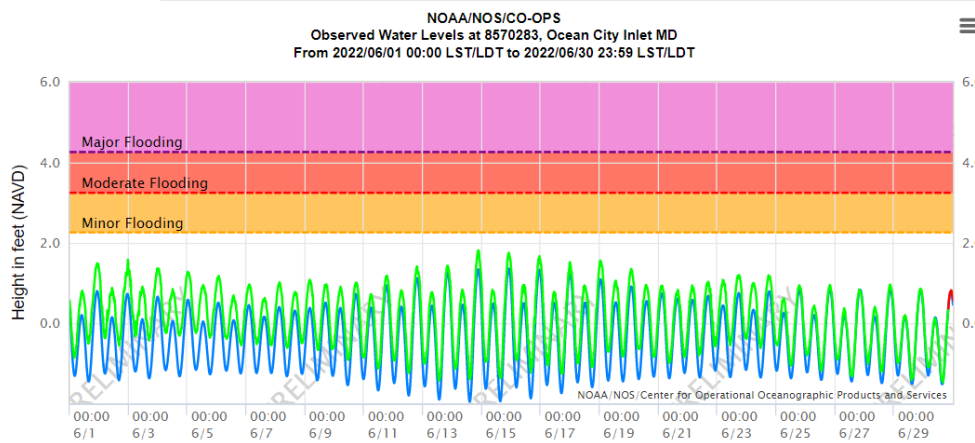
2022 Tide Elevations Q2



April 2022 – 0 High Tide Events



May 2022 – 1 High Tide Event/3 cycles

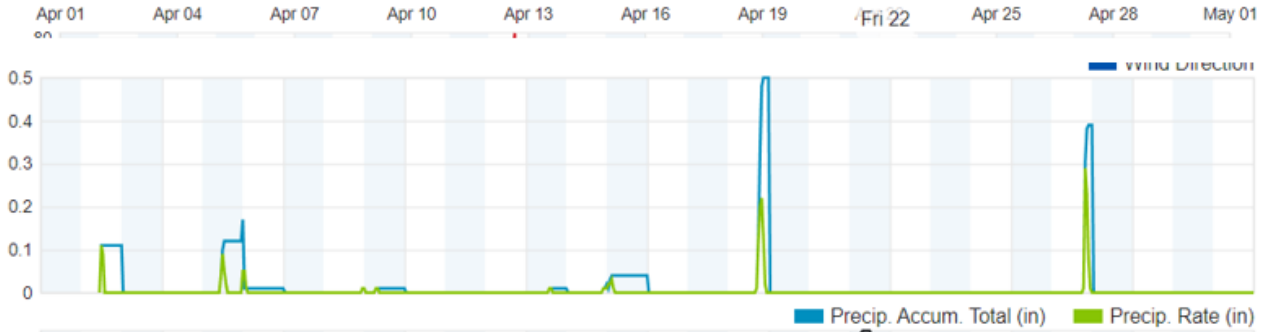


June 2022 – 0 High Tide Events

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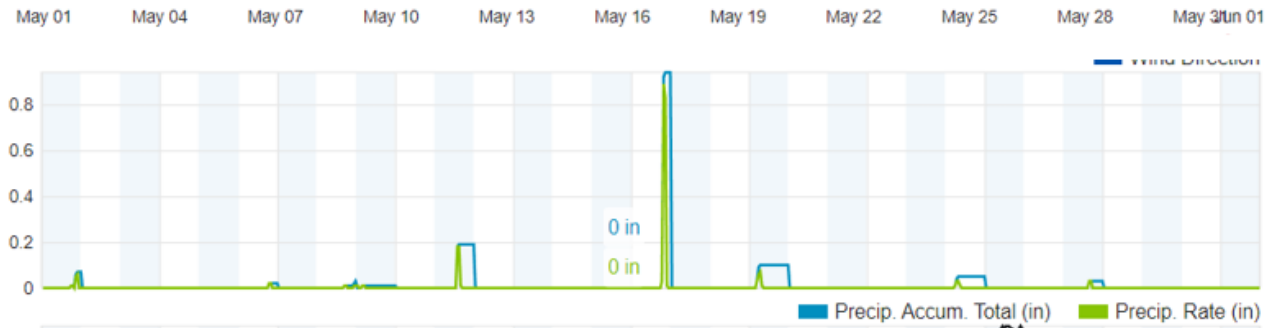
2022 Rainfall Events Q2

April 1, 2022 - April 30, 2022



April 18, 2022 - 0.5 inches (0.79 Inches at OC Airport)

May 1, 2022 - May 31, 2022



May 16, 2022 - 0.94 inches (May 24th, 1.17 inches at OC Airport*)

* Cumulative rainfall at OC Airport May 6-8th, 0.73 inches

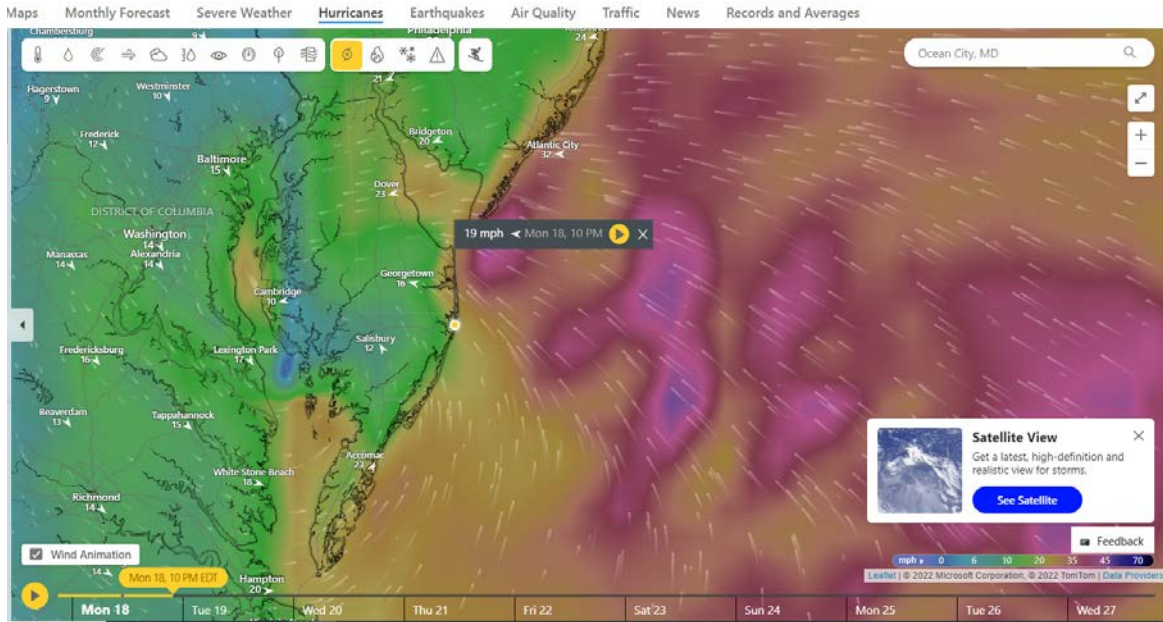
June 1, 2022 - June 30, 2022



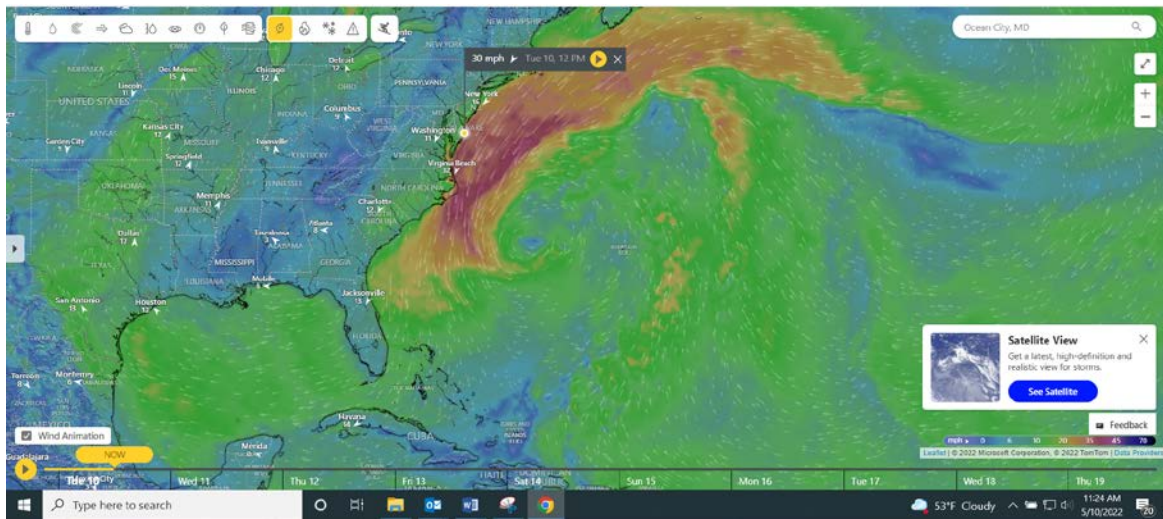
June 16, 2022 - 1.62 inches

Nuisance Tidal Flooding Report

MyCoast reports from April to June 2022 (see 5.8.2022 attached)



April 18, 2022

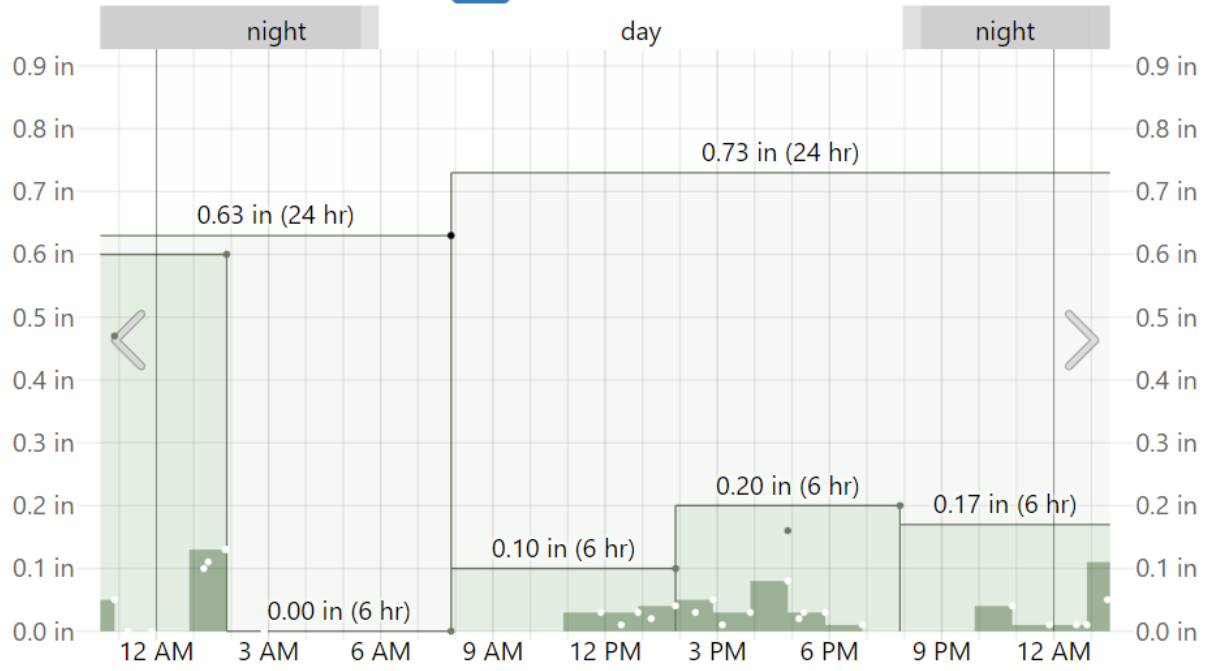


May 10, 2022

Liquid-Equivalent Precipitation on Saturday, May 7, 2022 at Ocean City Municipal Airport

[← May 2022](#)
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[Averages](#)

History: J F M A **May** J J A S O N D 2021 2020 2019 2018



Reported liquid or liquid-equivalent precipitation over various reporting intervals.

Ocean City in Clean Up Mode After Storm

May 9, 2022



Storm

OCEAN CITY, Md.- Businesses and neighbors in Ocean City spent Monday morning cleaning up sand after this weekend's storm, which washed out the weekend events of Springfest, which came as a disappointment to the Moll family who traveled from Pennsylvania for the event.

In a statement to WBOC, Jessica Waters, the Town of Ocean City spokesperson said, "The Town of Ocean City experienced minor damage due to the coastal storm, including several Springfest tents. Fortunately, the beach experienced no significant erosion or dune damage. The Town continues to monitor the tidal cycles and expects tidal flooding in the downtown areas to continue through Tuesday."