

# POST TROPICAL CYCLONE REPORT

|                       |                            |
|-----------------------|----------------------------|
| <b>Storm Name</b>     | Tropical Storm Ophelia     |
| <b>NWS Office</b>     | Baltimore/Washington D.C.  |
| <b>Begin/End Date</b> | 09/23/2023 - 09/25/2023    |
| <b>Fatalities</b>     | 0 - Direct<br>0 - Indirect |
| <b>Tornadoes</b>      | 0                          |

## Event Summary

Tropical Storm Ophelia made landfall in Emerald Isle, North Carolina on the morning of Saturday September 23rd, 2023 with sustained wind speeds of 70mph. Ophelia then tracked northward into eastern North Carolina before pushing into southeastern VA Saturday night and losing its tropical characteristics. Areas along and east of I-95 felt the brunt of the impact, with wind speeds of up to 50-55 mph, mainly over the waters of the Chesapeake Bay. Areas along the shore saw 2-3 foot storm surge, which resulted in moderate coastal flooding in spots. Additionally, some areas along the I-95 corridor received 3 to 5 inches of rainfall.

*NOTE: It is unlikely that the point-based observations provided in this report sampled the peak values for the event.*

## Highest 10 Land Winds (kts)\*

| <i>Station</i>                                | <i>State</i> | <i>Type</i> | <i>Sustained</i> | <i>Gust</i> |
|---|--------------|-------------|------------------|-------------|
| Point Lookout                                 | MD           | Weatherflow | 33               | 44          |
| Martin State Airport                          | VA           | AWOS        | 27               | 35          |
| Sandy Point                                   | MD           | Weatherflow | 26               | 40          |
| Piney Point, MD                               | MD           | NOS         | 26               | 35          |
| Solomons Island, MD                           | MD           | NOS         | 26               | 35          |
| Quantico Marine Corps Airfield - Turner Field | VA           | AWOS        | 25               | 39          |
| Ronald Reagan National Airport                | VA           | ASOS        | 24               | 37          |
| Tower 70                                      | VA           | Weatherflow | 23               | 32          |
| Hart/Miller                                   | MD           | Weatherflow | 23               | 44          |
| Baltimore-Washington International Airport    | MD           | ASOS        | 22               | 32          |

\* Anemometer heights < 20 m

**Highest 10 Marine Winds (kts)\***

| <i>Station</i>                          | <i>Type</i> | <i>Sustained</i> | <i>Gust</i> |
|---|-------------|------------------|-------------|
| Thomas Point, MD                        | NDBC        | 35               | 41          |
| Gooses Reef Buoy                        | CBIBS       | 35               | 49          |
| Patapsco Buoy                           | CBIBS       | 35               | 47          |
| Lower Potomac Buoy                      | CBIBS       | 33               | 45          |
| Saunders Point Light                    | Weatherflow | 32               | 44          |
| Tolly Point                             | Weatherflow | 32               | 41          |
| Grove Point Range Front Light           | Weatherflow | 32               | 41          |
| Francis Scott Key Bridge N.E. Tower, MD | NOS         | 31               | 40          |
| Annapolis Buoy                          | CBIBS       | 31               | 39          |
| Cobb Point                              | Weatherflow | 30               | 41          |

\* Anemometer heights < 20 m

**Highest 10 Rainfall Totals**

| <i>Station</i>         | <i>State</i> | <i>Type</i>     | <i>Inches</i> |
|------------------------|--------------|-----------------|---------------|
| 4 N Spotsylvania Court | VA           | Trained Spotter | 4.54          |
| 2 E Holly Corner       | VA           | Trained Spotter | 4.50          |
| Karo                   | VA           | Trained Spotter | 4.19          |
| 3 SE Stafford          | VA           | Trained Spotter | 4.15          |
| 1 W Ramoth             | VA           | Trained Spotter | 3.90          |
| 3 S Prince Frederick   | MD           | Trained Spotter | 3.86          |
| 1 ENE Holly Corner     | VA           | Trained Spotter | 3.61          |
| 2 E Marlton            | MD           | Trained Spotter | 3.53          |
| Joint Base Andrews     | MD           | AWOS            | 3.25          |
| 2 ESE Chantilly        | VA           | CoCoRaHS        | 3.25          |

**Highest NOAA Tide Gage Observations**

| <i>Station</i>                   | <i>State</i> | <i>Datum</i> | <i>Water Level (ft)</i> |
|----------------------------------|--------------|--------------|-------------------------|
| Wisconsin Avenue/Georgetown      | DC           | MHHW         | 2.70                    |
| DC SW Waterfront                 | DC           | MHHW         | 2.66                    |
| Dahlgren                         | VA           | MHHW         | 2.62                    |
| Alexandria Dock                  | VA           | MHHW         | 2.60                    |
| Solomons Island                  | MD           | MHHW         | 2.34                    |
| Annapolis                        | MD           | MHHW         | 2.31                    |
| Fort McHenry                     | MD           | MHHW         | 2.29                    |
| Straits Point                    | MD           | MHHW         | 2.27                    |
| Seneca Creek at Bowleys Quarters | MD           | MHHW         | 2.17                    |
| Potomac River at Indian Head     | MD           | MHHW         | 2.00                    |

**Lowest 10 Pressures**

| <i>Station</i>         | <i>State</i> | <i>Type</i> | <i>Millibars</i> |
|------------------------|--------------|-------------|------------------|
| Point Lookout          | MD           | Weatherflow | 1003.8           |
| Monroe Creek           | MD           | Weatherflow | 1004.3           |
| Cobb Point             | MD           | Weatherflow | 1004.3           |
| Potomac Lt 33          | MD           | Weatherflow | 1004.4           |
| Cuckold Creek          | MD           | Weatherflow | 1004.7           |
| Pylons_Dah             | MD           | Weatherflow | 1004.9           |
| Tower 70               | VA           | Weatherflow | 1005.0           |
| Webster Naval Airfield | MD           | ASOS        | 1005.1           |
| Solomons Island, MD    | MD           | NOS         | 1005.6           |
| Baber Point            | MD           | Weatherflow | 1005.8           |

***Report Last Updated on [09/28/2023]:***

The following files have been updated: Wind and Pressure, Rainfall, Water Level, Tornadoes, and Impact Narratives