

POST TROPICAL CYCLONE REPORT

Storm Name Ophelia

NWS Office Wilmington, NC (ILM)

Begin/End Date 09/22/2023 - 09/24/2023

Fatalities 0 - Direct
0 - Indirect

Tornadoes 0

Event Summary

Tropical Storm Ophelia developed from a non-tropical low off the Southeast U.S. coast and moved northward off the coasts of northeast SC and southeast NC before making landfall at Emerald Isle, NC during the early morning of September 23, 2023. The storm caused minor impacts across southeast NC and northeast SC, mainly in the form of hazardous marine and surf conditions, but also from tropical storm force winds which caused a few downed trees and damage to a gas station canopy in eastern NC.

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>
Wilmington	NC	ASOS	30	49
Southport	NC	AWOS	25	39
Myrtle Beach	SC	AWOS	25	38
Lumberton	NC	ASOS	21	34
North Myrtle Beach	SC	ASOS	20	36
Elizabethtown	NC	AWOS	18	35

* Anemometer heights < 20 m

Highest 10 Marine Winds (kts)*

<i>Station</i>	<i>Type</i>	<i>Sustained</i>	<i>Gust</i>
Wrightsville Beach Offshore	CORMP	47	71
Frying Pan Shoals	NDBC	43	62
Federal Point	WxFlow	42	52
Wrightsville Beach Nearshore	CORMP	38	53
Wrightsville Beach Johnnie Mercers Pier	NOS	33	47
Sunset Beach Nearshore	NDBC	31	45
Winyah Bay Range A Rear Light	WxFlow	31	38
Murrells Inlet	WxFlow	27	37
Lockwoods Folly Inlet	WxFlow	24	40
Oak Island	WxFlow	23	41

* Anemometer heights < 20 m

Highest 10 Rainfall Totals

<i>Station</i>	<i>State</i>	<i>Type</i>	<i>Inches</i>
Porters Neck	NC	Wx Underground	4.04
Watha 3 S	NC	Wx Underground	3.73
Burgaw 0.3 NE	NC	CoCoRaHS	3.52
Back Island	NC	RAWS	3.33
Surf City 2.5 NW	NC	Wx Underground	3.25
Hampstead 4.1 WNW	NC	CoCoRaHS	3.24
Ogden	NC	Public	3.22
Southport (St James)	NC	CWOP	3.22
Surf City (Saltwater Landing)	NC	CWOP	3.16
Wilmington 6.7 NE	NC	CoCoRaHS	3.15

Highest NOAA Tide Gage Observations

<i>Station</i>	<i>State</i>	<i>Datum</i>	<i>Water Level (ft)</i>
Wrightsville Beach	NC	MHHW	1.61

Lowest 10 Pressures

<i>Station</i>	<i>State</i>	<i>Type</i>	<i>Millibars</i>
Wrightsville Beach Offshore		CORMP	986.6
Wrightsville Beach Nearshore		CORMP	994.5
Wrightsville Beach Johnny Mercers Pier		NOS	995.2
Frying Pan Shoals		NDBC	995.6
Wilmington		NOS	996.8
Federal Point		WxFlow	997.0
Wilmington	NC	ASOS	997.3
Oak Island		WxFlow	999.0
Lockwoods Folly Inlet		WxFlow	1000.0
Sunset Beach Nearshore		NDBC	1000.6

Report Last Updated on 2/23/2024:

Corrected max sustained wind at Wilmington (KILM) and Wrightsville Beach Nearshore (41038) and max wind gust at Wrightsville Beach Offshore (41037) and added wind data for Wrightsville Beach Johnnie Mercers Pier and Myrtle Beach Springmaid Pier