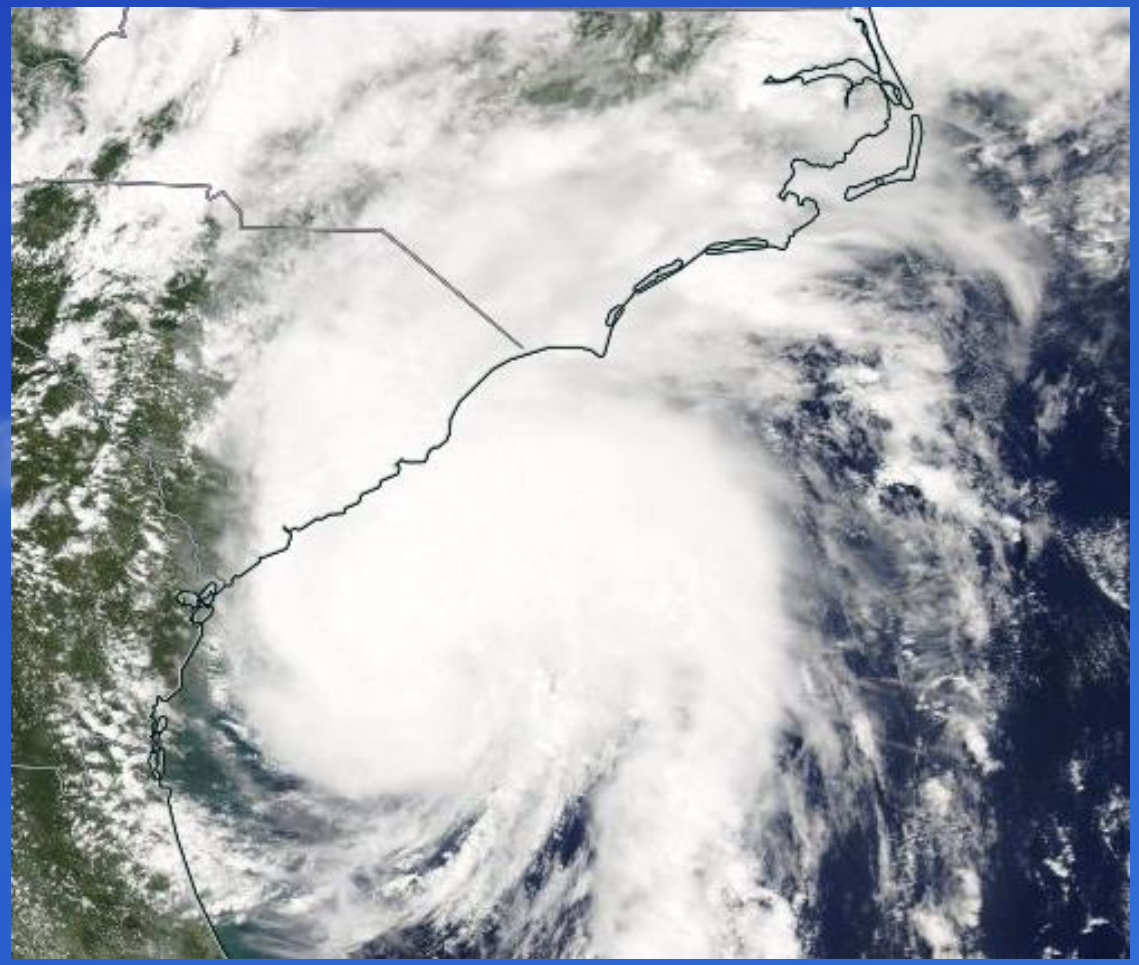
August 2020 Climate Review

Presented By:

National Weather Service

Newport/Morehead City, NC

August 2020 Highlights



Then-Tropical Storm Isaias advances up the southeastern coast of the United States on August 3, 2020. Image courtesy of NASA Worldview.

Hurricane Isaias: Making landfall near Ocean Isle Beach just before midnight on Aug. 3rd, Isaias brought high winds and five confirmed tornadoes to eastern North Carolina, all rated EF-1. The hurricane's fast forward speed prevented any prolific rainfall, although many areas still saw 2-4 inches from the storm.

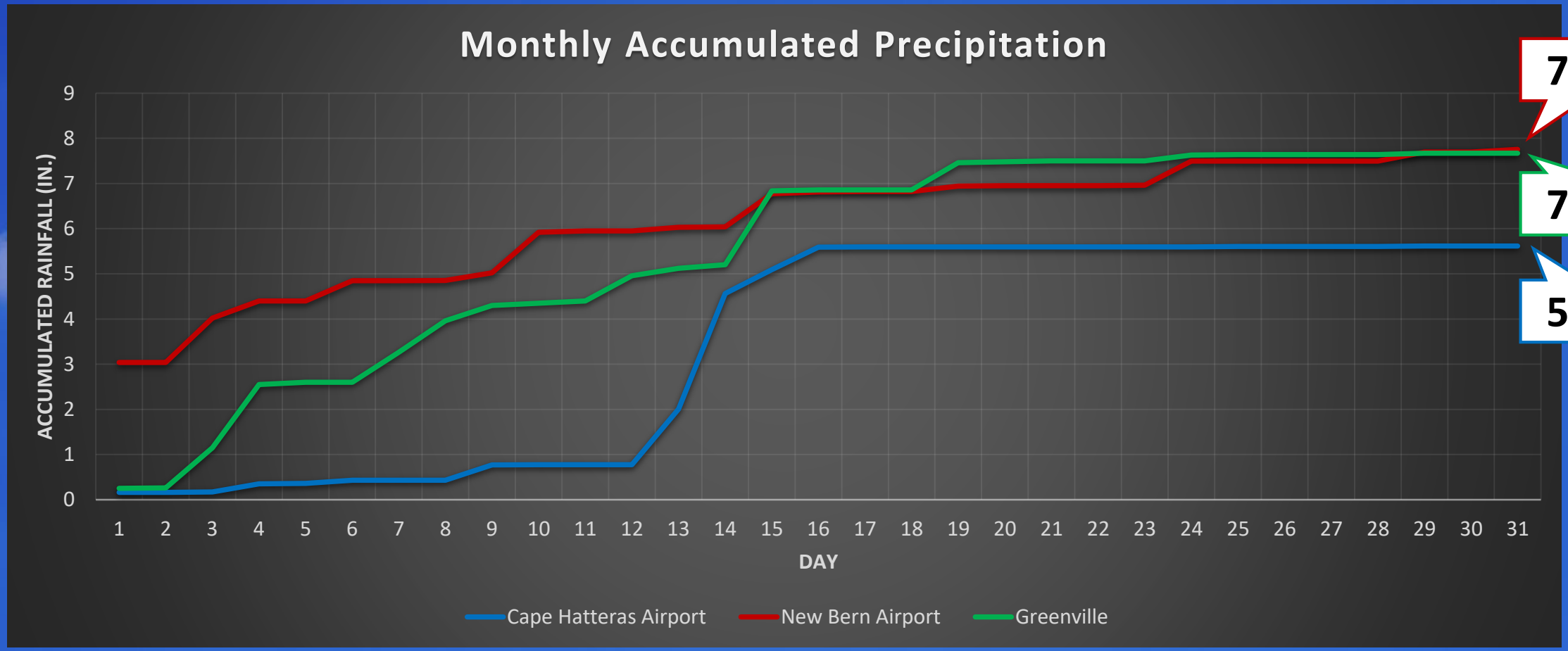
Hatteras Sets Another Record: Cape Hatteras set a record for the warmest August since observations began, continuing a 2-month streak of record warmth for the area.

Monthly Rankings

	Average Temp	Total Rainfall
Hatteras	**Warmest**	60th Wettest
New Bern	20th Warmest	28th Wettest

DISCLAIMER: The climate data provided are preliminary and have not undergone final quality control by NCDC. Therefore…this data is subject to revision.

August 2020 Rainfall

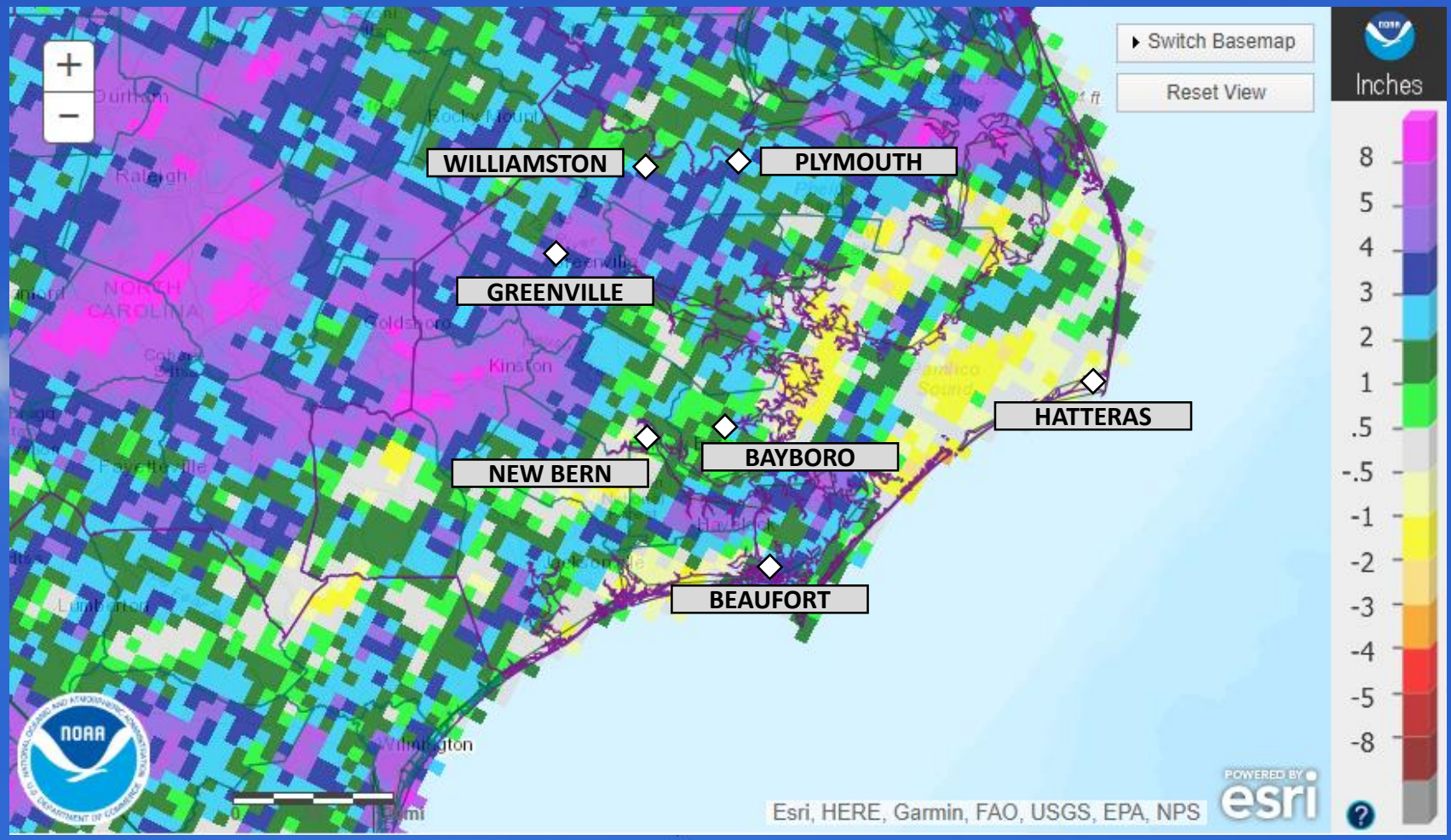


White diamonds denote missing 24-hour precipitation report. Asterisk denotes total with missing data.

August 2020 Rainfall vs. Climate Normal

	Observed (In.)	Normal	Difference
Beaufort	11.72	7.70	▲ 4.02
Hatteras	5.61	6.93	▼ 1.32
New Bern	7.75	6.65	▲ 1.10
Greenville	7.67	6.14	▲ 1.53
Williamston	7.90	5.54	▲ 2.36
Plymouth	9.31	6.28	▲ 3.03
Bayboro	8.26	7.25	▲ 1.01

Red sites have missing data



August 2020 Precipitation: Departure from Normal

Analysis from the Advanced Hydrologic Prediction Service

Wettest and Driest Augusts

	Cape Hatteras	Year Observed	New Bern	Year Observed
Wettest	16.10”	1986	24.23”	1955
2nd Wettest	14.93”	1908	15.04”	2011
3rd Wettest	14.62”	1953	13.03”	1986
4th Wettest	14.19”	1899	12.86”	1935
5th Wettest	13.97”	1999	12.81”	1992

	Cape Hatteras	Year Observed	New Bern	Year Observed
5th Driest	1.13”	1928	3.04”	2011
4th Driest	1.10”	2007	2.97”	2010
3rd Driest	1.04”	1978	2.90”	1990
2nd Driest	0.99”	1983	2.29”	1940
Driest	0.85”	1938	0.28”	1953

Average Temperatures: August 2020

	Average High	Normal High	Difference	Average Low	Normal Low	Difference
Beaufort	86.6	84.8	▲ 1.8	76.5	72.8	▲ 3.7
Hatteras	87.8	84.1	▲ 3.7	77.2	72.9	▲ 4.3
New Bern	88.2	87.9	▲ 0.3	72.4	70.4	▲ 2.0
Greenville	88.0	88.3	▼ 0.3	72.5	69.2	▲ 3.3
Kinston	88.8	89.6	▼ 0.8	72.0	69.3	▲ 2.7
Williamston	88.0	87.3	▲ 0.7	72.1	67.5	▲ 4.6
Plymouth	87.6	87.8	▼ 0.2	71.5	68.6	▲ 2.9
Bayboro	87.0	88.0	▼ 1.0	70.7	70.0	▲ 0.7

Red sites have missing data

Warmest and Coolest Augusts By Avg. Temp

	Cape Hatteras	Year Observed	New Bern	Year Observed
Warmest	**82.5°**	**2020**	82.3°	1988
2nd Warmest	82.3°	2018	81.9°	1987
3rd Warmest	82.2°	2005, 2016	81.7°	2016
4th Warmest	81.9°	2011	81.5°	2011
5th Warmest	81.3°	2019	81.4°	1936, 1938

	Cape Hatteras	Year Observed	New Bern	Year Observed
5th Coolest	76.4°	1946, 1981	76.9°	1981
4th Coolest	76.2°	1927, 1957	76.6°	1963, 2004
3rd Coolest	76.1°	1964	76.4°	1946
2nd Coolest	75.9°	1976	76.2°	1966
Coolest	75.8°	1922	76.1°	1967

Temperature Extremes: August 2020

	Max High	Date Obs.	Min Low	Date Obs.
Beaufort	91	1st	71	19th
Hatteras	92	5th, 11th	70	18th
New Bern	93	1st, 27th	69	19th, 20th
Greenville	94	2nd	67	17th
Kinston	96	1st	67	17th
Williamston	93	28th	68	20th
Plymouth	93	1st	66	20th
Bayboro	92	2nd	66	18th, 20th, 21st, 27th

Red sites have missing data

Drought Monitor: North Carolina

September 1, 2020

(Released Thursday, Sep. 3, 2020)

Valid 8 a.m. EDT

Drought Conditions (Percent Area)

	None	D0-D4	D1-D4	D2-D4	D3-D4	D4
Current	100.00	0.00	0.00	0.00	0.00	0.00
Last Week *08-25-2020*	100.00	0.00	0.00	0.00	0.00	0.00
3 Months Ago *06-02-2020*	100.00	0.00	0.00	0.00	0.00	0.00
Start of Calendar Year *12-31-2019*	93.61	6.39	0.00	0.00	0.00	0.00
Start of Water Year *10-01-2019*	37.68	62.32	41.69	4.40	0.00	0.00
One Year Ago *09-03-2019*	81.99	18.01	6.71	0.00	0.00	0.00

Intensity:

- None
- D0 Abnormally Dry
- D1 Moderate Drought
- D2 Severe Drought
- D3 Extreme Drought
- D4 Exceptional Drought

The Drought Monitor focuses on broad-scale conditions. Local conditions may vary. For more information on the Drought Monitor, go to https://droughtmonitor.unl.edu/About.aspx

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droughtmonitor.unl.edu

Monthly Drought Outlook