

Climate Review for the month of October 2012

Presented by:
National Weather Service
Newport/Morehead City

Summary

The month of October contained its typical seasonal transition across Eastern NC. Weather patterns fluctuated between upper level ridging and upper level troughing throughout the month. A more active amount of Cold Fronts brought seasonably cooler temperatures and formation of Low Pressure systems for the area. Overall, Eastern NC had near normal (seasonal) temperatures while precipitation was near to above normal for the month.

Several cold fronts and low pressure systems traversed the region in October. Hurricane Sandy passed just 250 miles off the coast of Cape Hatteras which brought a great amount of rainfall across the Eastern NC. October rainfall typically ranges 3 to 4 inches, but October 2012, rainfall averaged were 4 to 9.5 inches with the highest along the Outer Banks...mainly THANKS to Sandy.

October's ENSO recap: Ocean temperatures within the Niño 3.4 region over the Equatorial Pacific Ocean have been averaging about $+0.3^{\circ}$ C indicating a neutral ENSO. The atmospheric circulation continues to possess an ENSO neutral weather pattern and has not been influenced with weak El Niño conditions. Therefore, El Nino Watch has been discontinued from Climate Prediction Center (CPC) as they are favoring a more Neutral 2012-2013 Winter Season.

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

Average Temperatures within our CWA

	Avg_ Max	Avg_Max Normal	Avg_ Min	Avg_Min Normal
Beaufort	72.9	na	57.2	na
Cape Hatteras	73.4	72.6	60.7	58.8
New Bern	74.1	74.4	54.6	53.1
Greenville	72.4	73.1	52.2	49.2
Kinston AG	75.4	77.1	53.9	50.9
Williamston	72.5	72.9	51.7	49.7
Plymouth	72.4	74.5	52.5	51.0
Bayboro	73.3	75.5	52.8	51.7

Average temperatures were near normal for October 2012.

Max and Min Temperature within our CWA

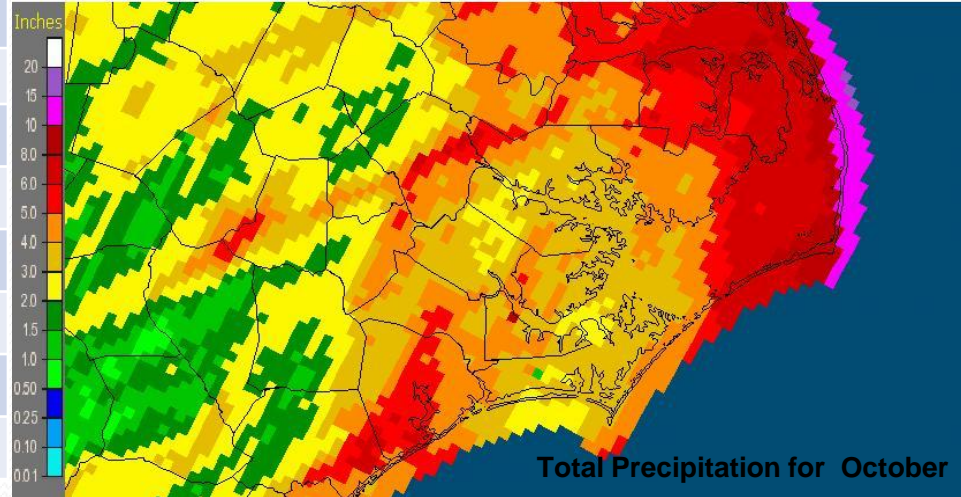
	MAX	MIN
Beaufort	84	46
Cape Hatteras	83	48
New Bern	87	40
Greenville	83	40
Kinston AG	84	41
Williamston	84	41
Plymouth	84	39
Bayboro	85	41

The warmest temperatures were within the first week of October.
The lowest temps were in the last week of October.

October's Rain versus Normal

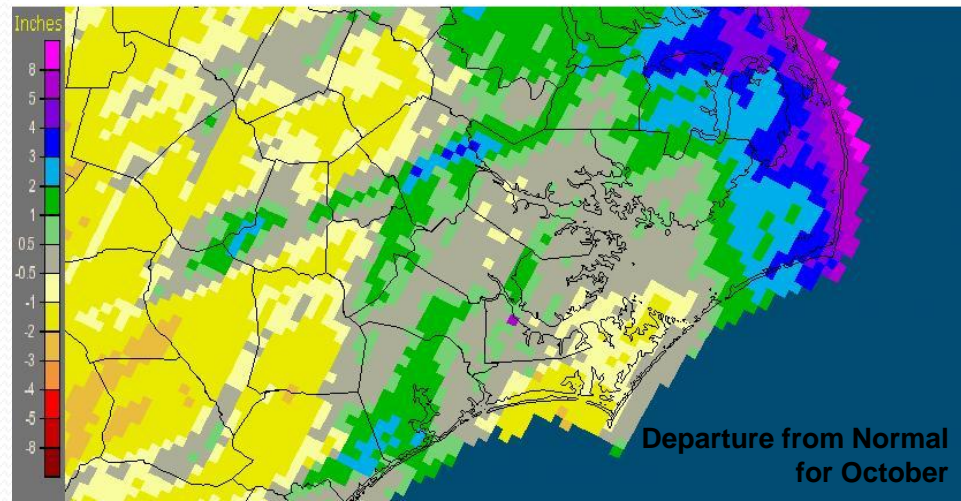
	Precipitation (inches)	Normal	Differences
Beaufort	3.89	na	na
Cape Hatteras	9.38	5.38	4.00
New Bern	3.97	3.26	0.71
Greenville	5.52	3.25	2.27
Kinston AG	2.48	3.06	-0.58
Williamston	4.44	3.9	0.54
Plymouth	4.87	3.75	1.12
Bayboro	4.92	3.98	0.94

Newport/Morehead City, NC (MHX): October, 2012 Monthly Observed Precipitation
Valid at 11/1/2012 1200 UTC- Created 11/3/12 21:38 UTC



Total Precipitation for October

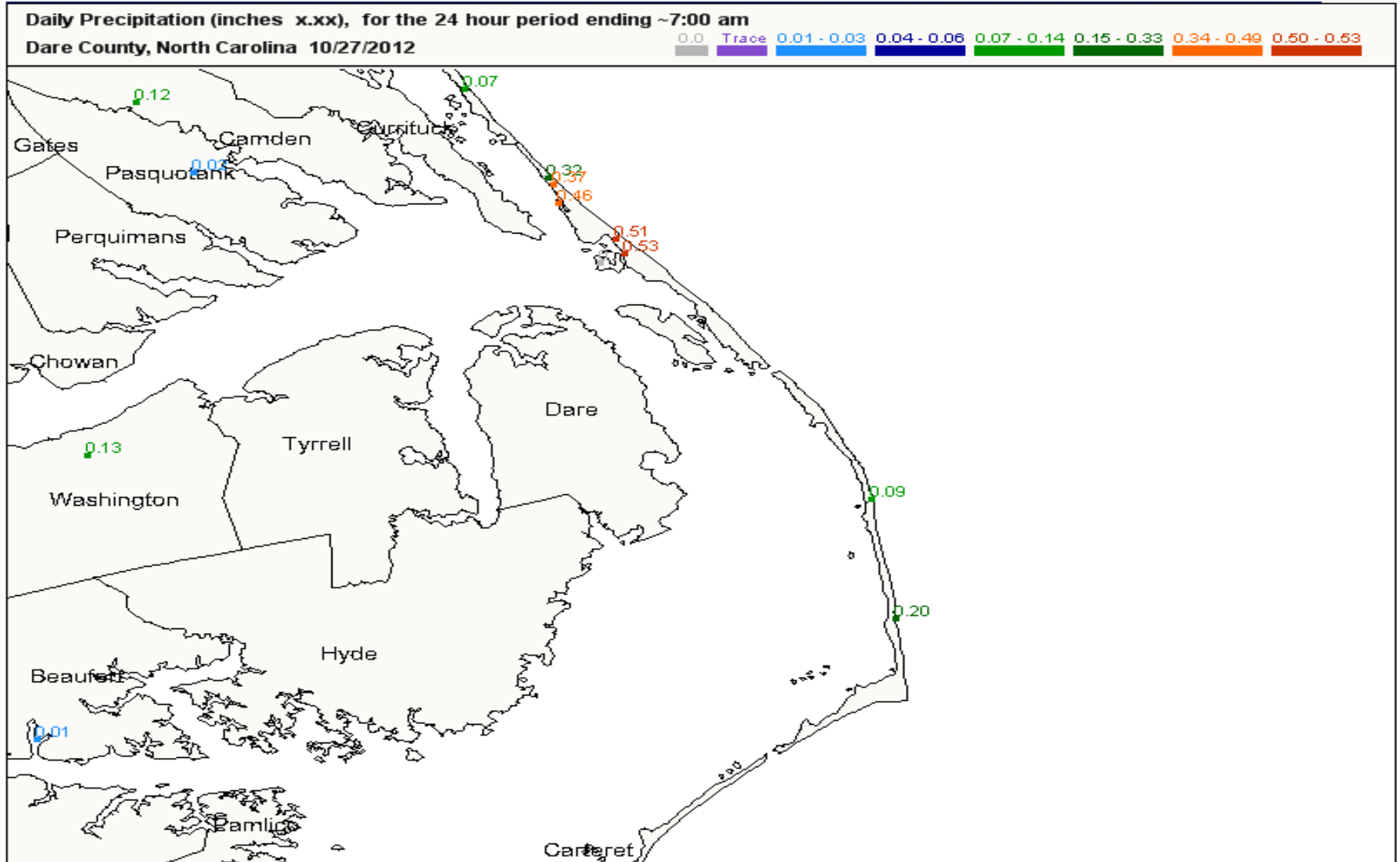
Newport/Morehead City, NC (MHX): October, 2012 Monthly Departure from Normal Precipitation
Valid at 11/1/2012 1200 UTC- Created 11/3/12 21:40 UTC



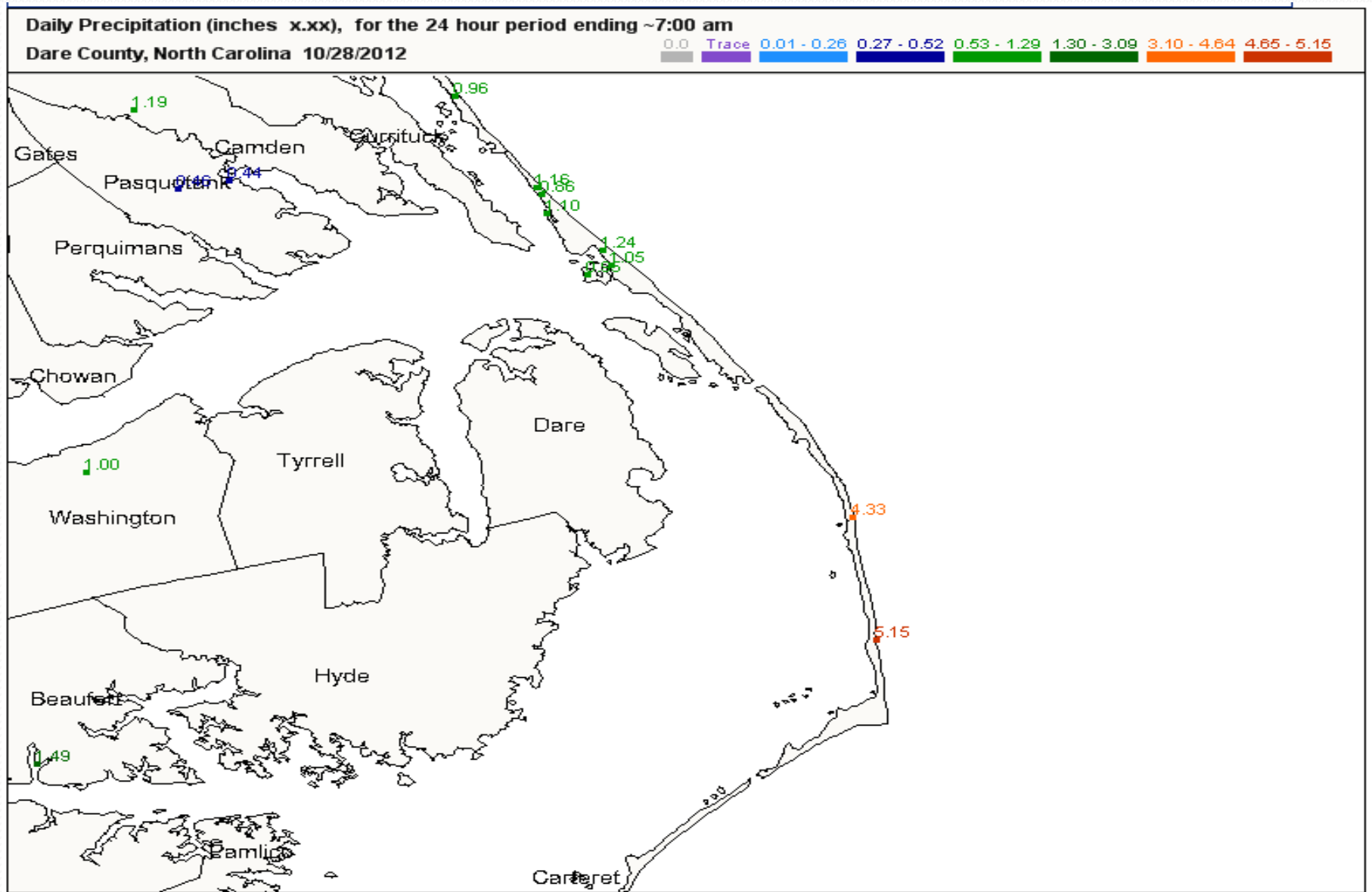
Departure from Normal for October

Near to above normal precipitation fell across our CWA during the month of October. Majority of the above normal precipitation fell across the Outer Banks due to Hurricane Sandy.

CoCoRaHS Daily Summaries over the Outer Banks



10.28.2012

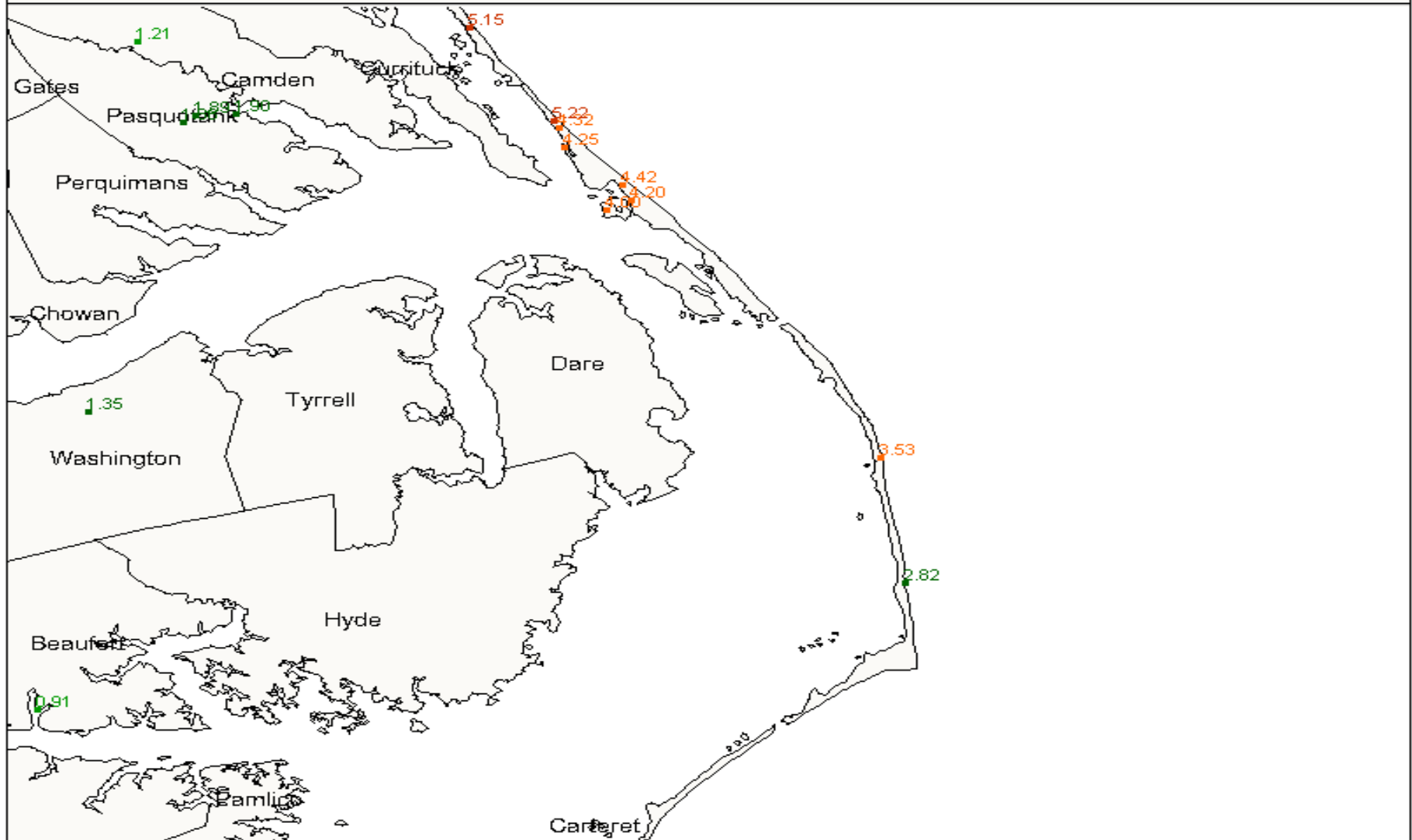


10.29.2012

Daily Precipitation (inches x.xx), for the 24 hour period ending ~7:00 am

Dare County, North Carolina 10/29/2012

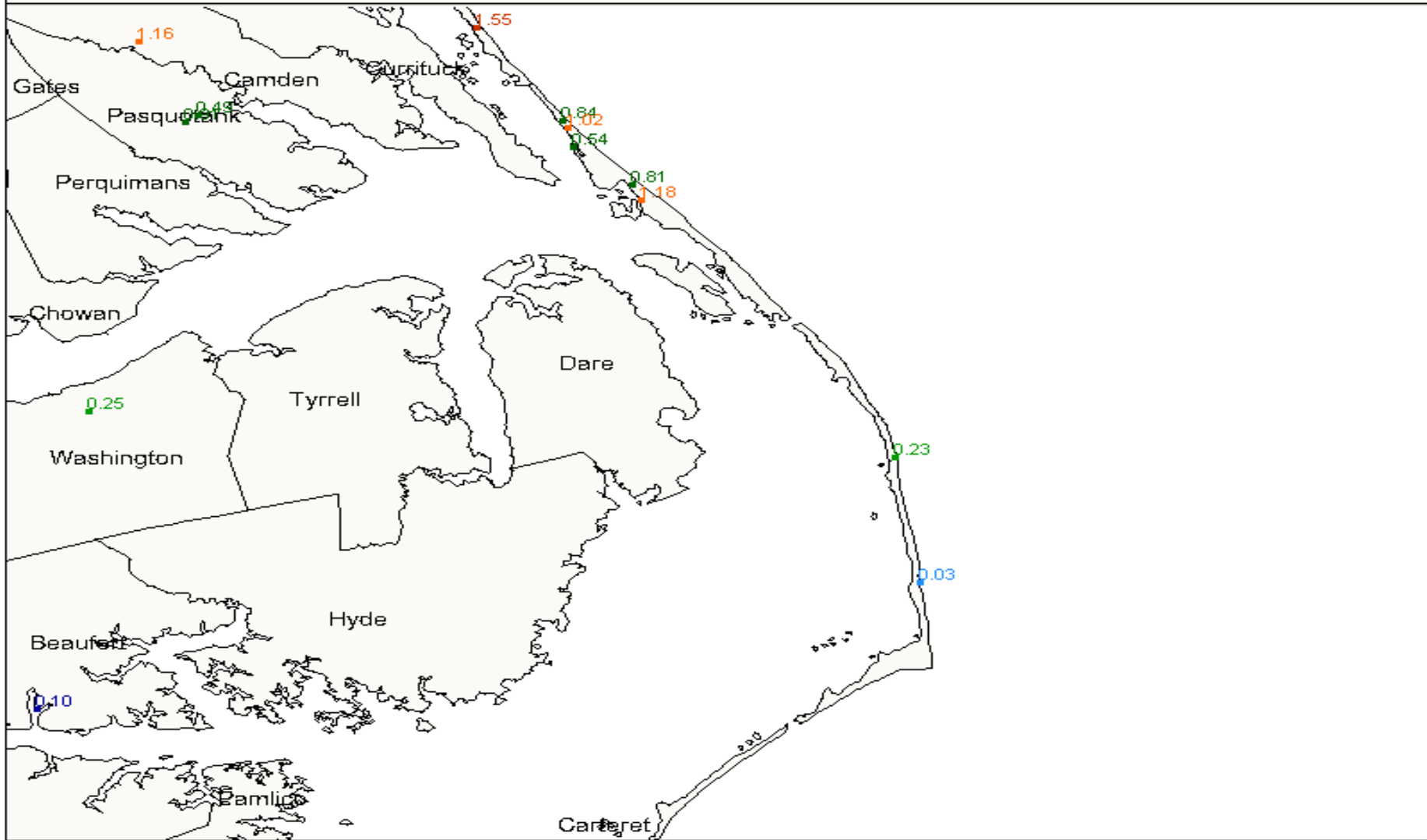
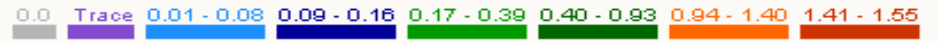
0.0 Trace 0.01 - 0.26 0.27 - 0.52 0.53 - 1.30 1.31 - 3.13 3.14 - 4.70 4.71 - 5.22



10.30.2012

Daily Precipitation (inches x.xx), for the 24 hour period ending ~7:00 am

Dare County, North Carolina 10/30/2012

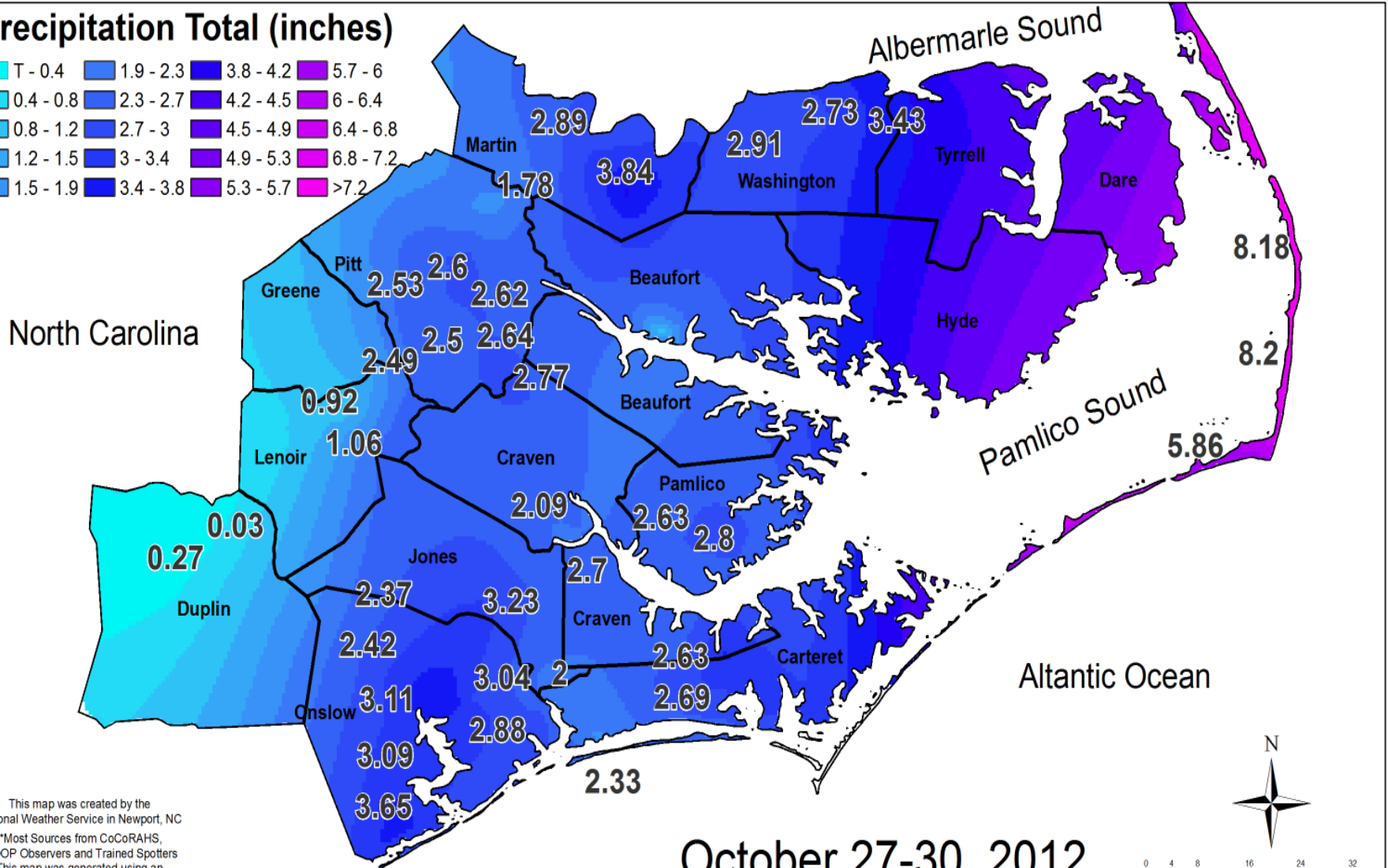
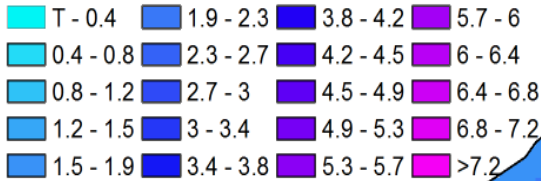




National Weather Service Newport/Morehead City NC Hurricane Sandy

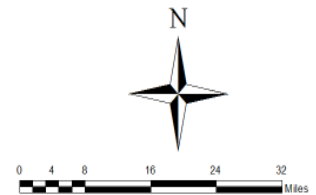


Precipitation Total (inches)



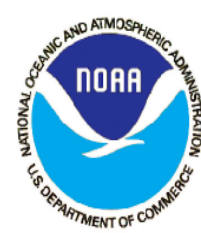
This map was created by the National Weather Service in Newport, NC
 *Most Sources from CoCoRAHS, COOP Observers and Trained Spotters
 This map was generated using an interpolation method from actual values, but should be considered estimation only.

October 27-30, 2012

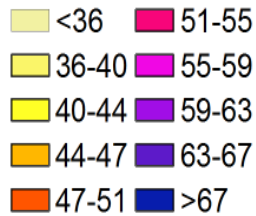




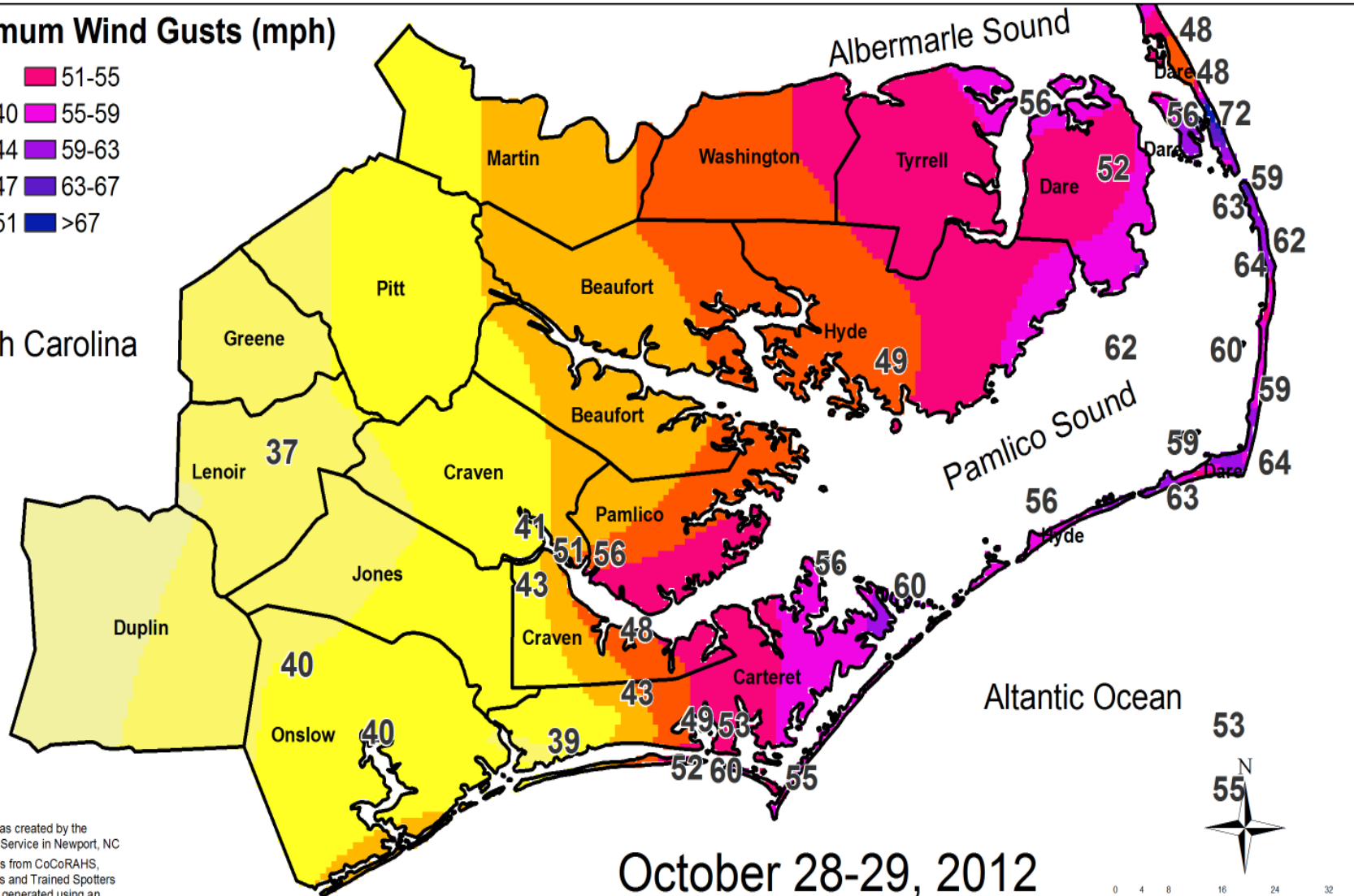
National Weather Service Newport/Morehead City NC Hurricane Sandy



Maximum Wind Gusts (mph)

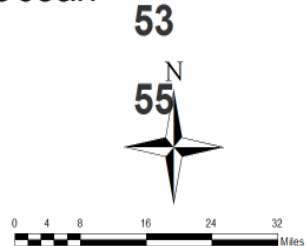


North Carolina



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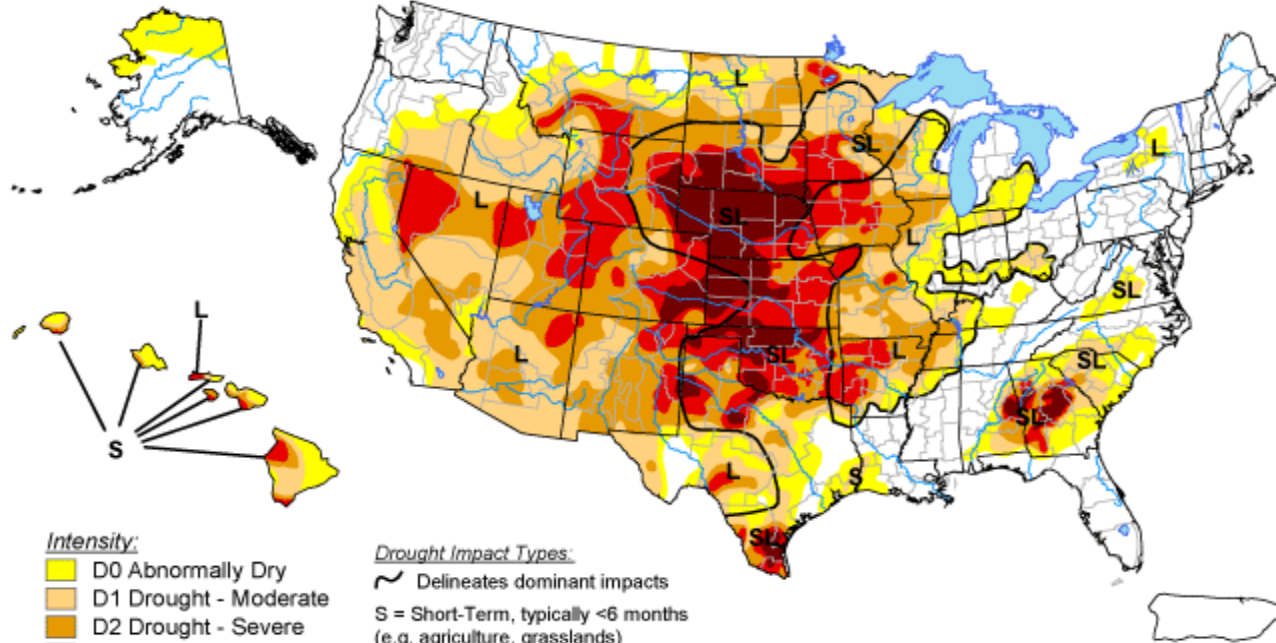
October 28-29, 2012



U.S. Drought Monitor

November 6, 2012

Valid 7 a.m. EST



Intensity:

- D0 Abnormally Dry
- D1 Drought - Moderate
- D2 Drought - Severe
- D3 Drought - Extreme
- D4 Drought - Exceptional

Drought Impact Types:

- Delineates dominant impacts
- S = Short-Term, typically <6 months (e.g. agriculture, grasslands)
- L = Long-Term, typically >6 months (e.g. hydrology, ecology)

The Drought Monitor focuses on broad-scale conditions. Local conditions may vary. See accompanying text summary for forecast statements.

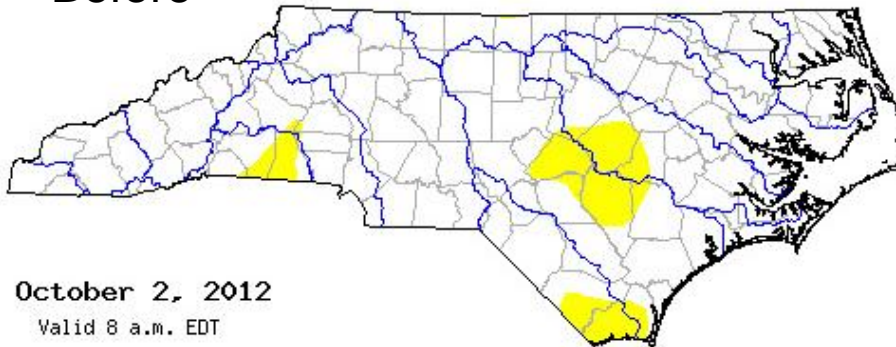
<http://droughtmonitor.unl.edu/>



Released Thursday, November 8, 2012

Author: David Miskus, NOAA/NWS/NCEP/CPC

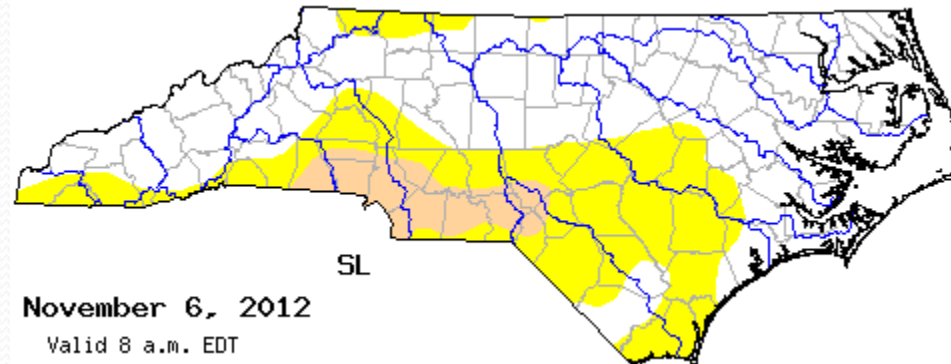
Before



October 2, 2012

Valid 8 a.m. EDT

Now



November 6, 2012

Valid 8 a.m. EDT

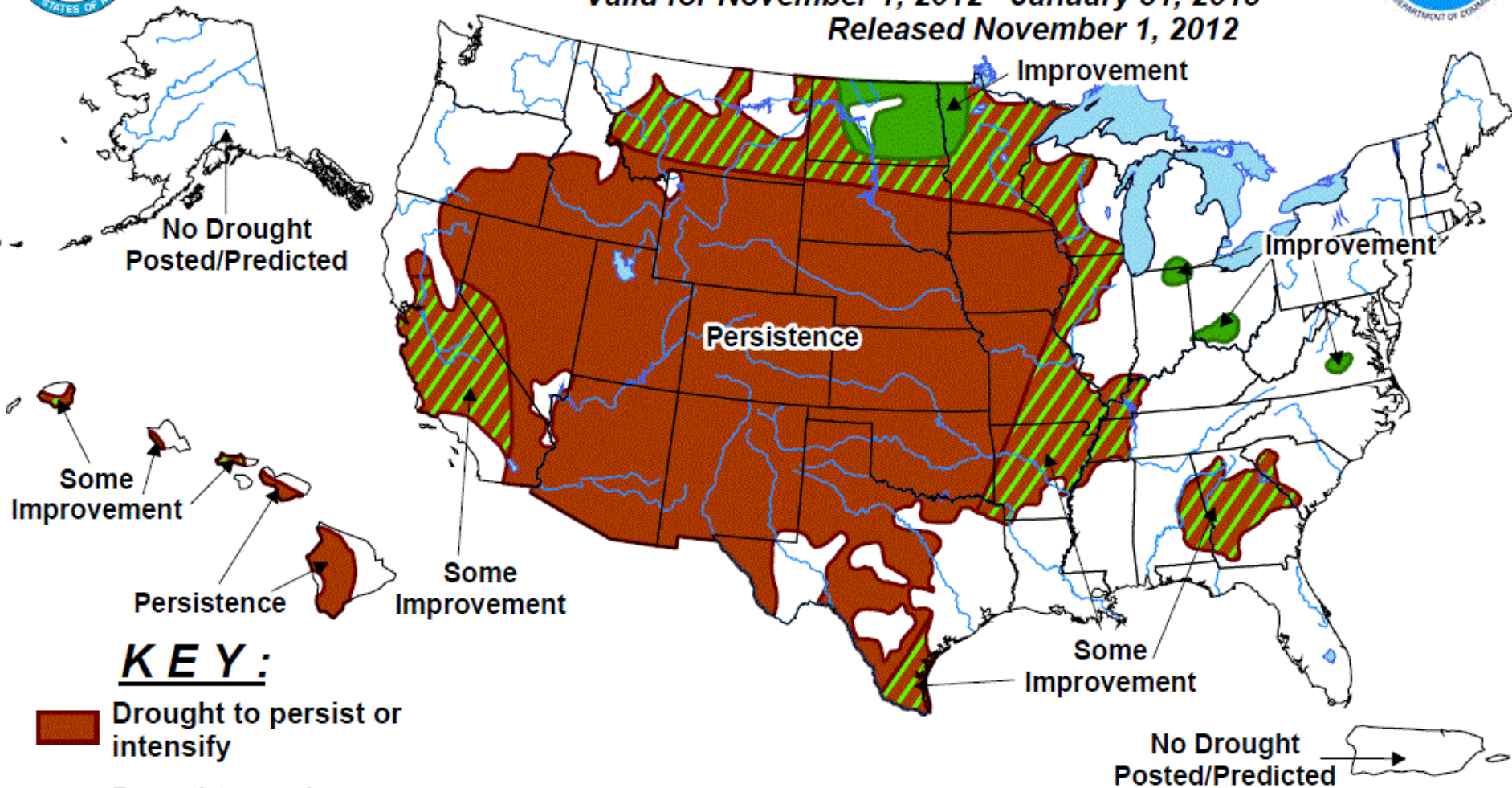


U.S. Seasonal Drought Outlook

Drought Tendency During the Valid Period

Valid for November 1, 2012 - January 31, 2013

Released November 1, 2012



Depicts large-scale trends based on subjectively derived probabilities guided by short- and long-range statistical and dynamical forecasts. Short-term events -- such as individual storms -- cannot be accurately forecast more than a few days in advance. Use caution for applications -- such as crops -- that can be affected by such events. "Ongoing" drought areas are approximated from the Drought Monitor (D1 to D4 intensity). For weekly drought updates, see the latest U.S. Drought Monitor. NOTE: the green improvement areas imply at least a 1-category improvement in the Drought Monitor intensity levels, but do not necessarily imply drought elimination.