



MIAMI-SOUTH FLORIDA

National Weather Service Forecast Office

<http://www.weather.gov/miami>

COOL AND DRY NOVEMBER

December 1, 2012: After a wet and stormy rainy season over much of South Florida, the first full month of the dry season brought an abrupt change to very dry conditions. Most of the region received less than an inch of rain the entire month of November (Figure 1), with a few locations west of Lake Okeechobee recording no measurable rain whatsoever (Moore Haven, LaBelle and Muse). The only areas receiving near normal rainfall for the month (between 2 and 4 inches) resulted from narrow, localized bands of heavy showers in mid and late November. Areas affected include portions of northern coastal Palm Beach County, coastal Miami-Dade County and the Homestead area.

Following are November 2012 rainfall totals and historical rank for select locations:

Station – Beginning of Records	Nov. 2012	Rank
MIAMI - 1911	0.50	T-12 th driest
WEST PALM BEACH – 1888	0.75	14 th driest
FORT LAUDERDALE	0.83	11 th driest
NAPLES – 1942	0.12	4 th driest
JUNO BEACH	3.80	
MIAMI BEACH - 1927	2.47	
CAPE FLORIDA	2.04	
HOLLYWOOD – 1963	1.80	
POMPANO BEACH AIRPARK	1.37	
NORTH MIAMI BEACH	0.87	
FORT LAUDERDALE EXEC.	0.74	
THE REDLAND – 1958	0.60	8 TH driest
HOMESTEAD GENERAL	0.57	
NWS MIAMI- SWEETWATER	0.54	
FORT LAUDERDALE BEACH	0.34	
OPA LOCKA AIRPORT	0.47	

HIALEAH - 1978	0.24	2 nd driest
TAMIAMI AIRPORT	0.20	
BRIGHTON RESERVATION	0.19	
SOUTH BAY/OKEELANTA	0.13	
ORTONA	0.11	
MARCO ISLAND	0.08	
BIG CYPRESS RES	0.08	
PALM BEACH GARDENS	0.05	
MARCO ISLAND	40.37	
MOORE HAVEN - 1918	0	Driest on record
LABELLE - 1929	0	Driest on record
MUSE	0	Driest on record

Despite the low November rainfall values, a few sites are close to their record-wettest calendar years. Miami International Airport's total to date of 86.43 inches is less than 3 inches away from their record of 89.33 inches set back in 1959; however it will take a wetter-than-normal December to reach the record. The Redland is also relatively close to their calendar-year record of 83.98 inches also set in 1959. At the National Weather Service Miami office located in western metro Miami-Dade County, the year-to-date rainfall of 99.03 inches is less than an inch away from the 100-inch mark!

TEMPERATURES

Another noteworthy aspect of November's weather was the cooler-than-normal temperatures felt throughout the month. Average temperatures ran about 3 to 5 degrees below normal (Figure 2) and represented the coolest November since 2008. At Miami International Airport, November 2012 was the coolest since 1981.

Low pressure in the mid-levels of the troposphere was generally responsible for the drier and cooler weather pattern which predominated in November (Figure 3). West to northwest winds in these levels transported provided the support for cold fronts and associated cool, continental air masses to make their way into Florida.

- **Miami International Airport** had an average November temperature of 71.4 degrees Fahrenheit. This is 3.5 degrees above the 30-year normal for November and ranks as the 25th coolest November on record. The lowest temperature recorded last month was 55 degrees on the 25th. The highest temperature recorded last month was 83 degrees on the 3rd and 6th.

- **Palm Beach International Airport** had an average November temperature of 70.3 degrees Fahrenheit. This is 2.5 degrees below the 30-year normal for November and ranks as the 23rd coolest November on record. The lowest temperature recorded last month was 49 degrees on the 24th. The highest temperature recorded last month was 83 degrees on the 6th.

- **Fort Lauderdale/Hollywood International Airport** had an average November temperature of 71.2 degrees Fahrenheit. This is 4.3 degrees below the 30-year normal for November and ranks as the 18th coolest November on record. The lowest temperature recorded last month was 55 degrees on the 24th and 25th. The highest temperature recorded last month was 83 degrees on the 6th.

- **Naples Municipal Airport** had an average November temperature of 68.5 degrees Fahrenheit. This is 3.6 degrees below the 30-year normal for November and ranks as the 8th coolest November on record. The lowest temperature recorded last month was 50 degrees on the 24th, 25th and 26th. The highest temperature recorded last month was 83 degrees on the 3rd, 14th and 17th.

OUTLOOK AND POTENTIAL HAZARDS

The long-range outlook by the [Climate Prediction Center](#) for December indicates an enhanced likelihood that the cool and dry trend observed in November will continue in December and possibly into early 2013 (Figure 4). The [below normal temperature outlook for December](#) may at least be partly due to cooler sea surface temperatures over the coastal waters, with a possible storm track farther north over the United States keeping most of the deeper moisture north of our region and increasing the likelihood of [dry conditions across south Florida](#).

While December typically presents fewer and less frequent weather hazards than during the summer months, we're still vulnerable to hazards such as rip currents and freezing/cold temperatures. For daily weather forecasts, watches, warnings and statements, please visit our web site at weather.gov/southflorida. We are also on [Facebook](#) and [Twitter](#)!

Florida: Current Month to Date Observed Precipitation
Valid at 11/30/2012 1200 UTC- Created 11/30/12 15:41 UTC

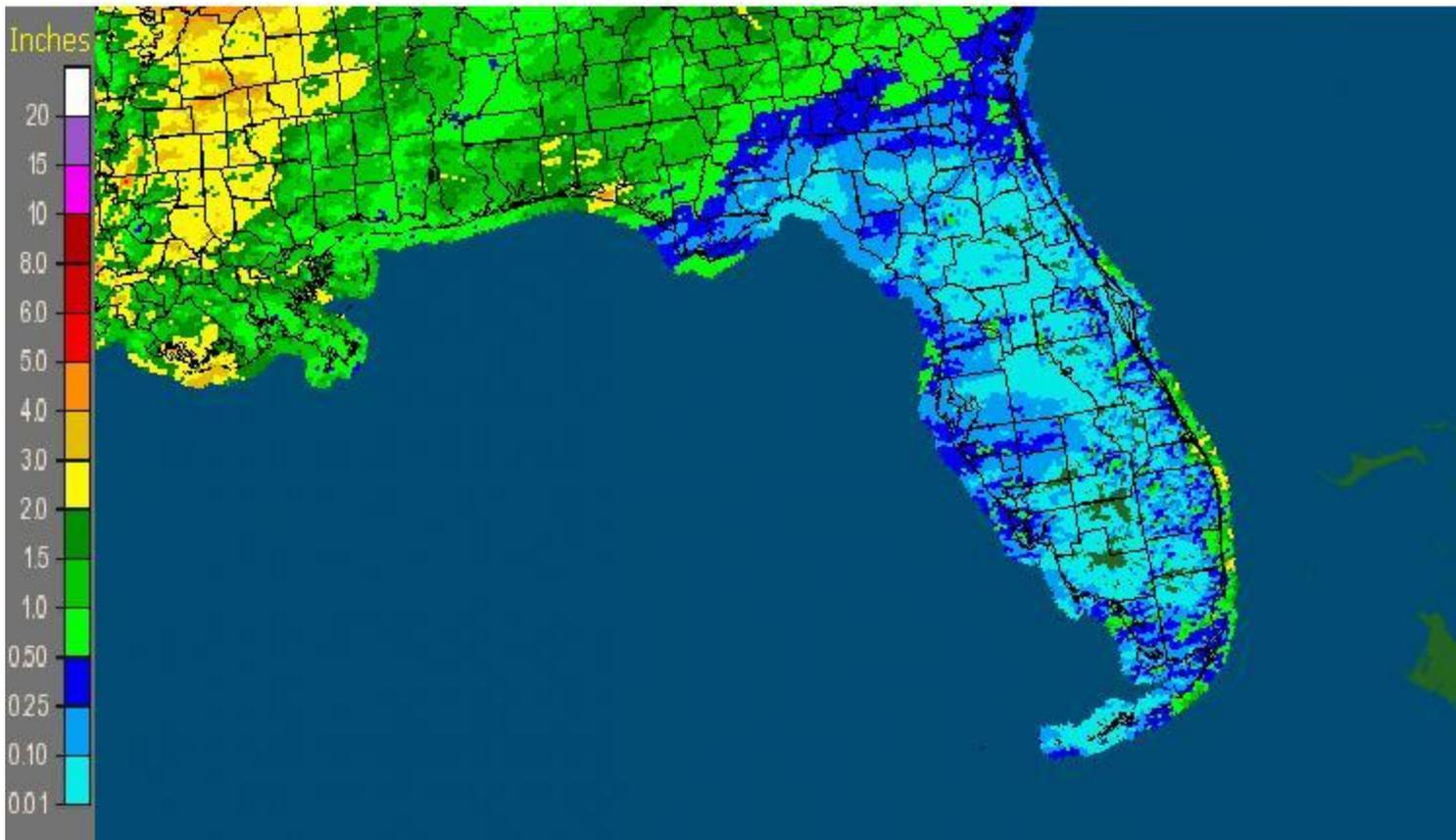


FIGURE 1: November Precipitation in inches. Blue colors denote values below 0.50 inches with values generally above 1 inch in dark green and yellow.

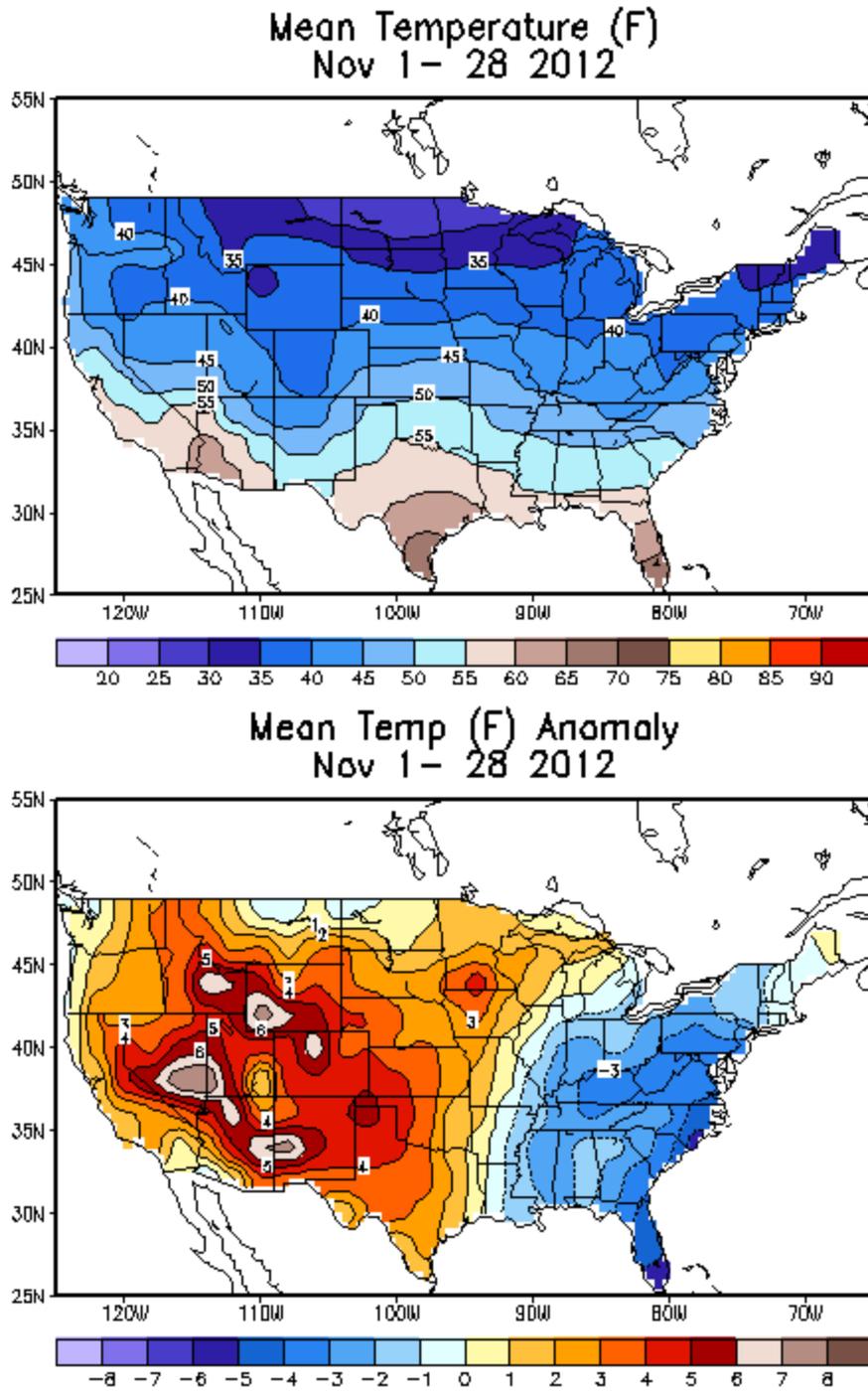


FIGURE 2: November Mean Temperature (top) and departure from normal (bottom).

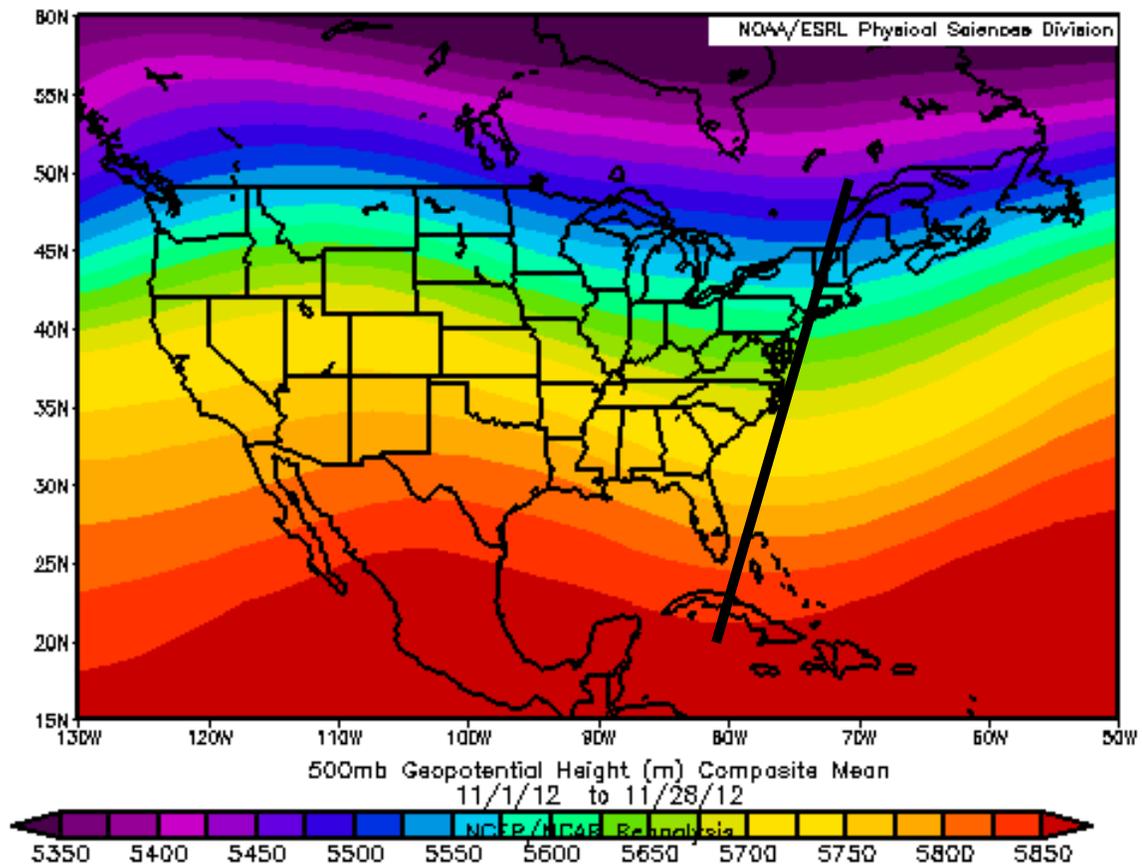


FIGURE 3: 500 MB AVERAGE HEIGHTS FOR NOVEMBER 2012. BLACK LINE DEPICTS GENERAL LOCATION OF LOW PRESSURE TROUGH IN THE MID-LEVELS OF THE TROPOSPHERE (APPROXIMATELY 18,000 FEET ABOVE SEA LEVEL).

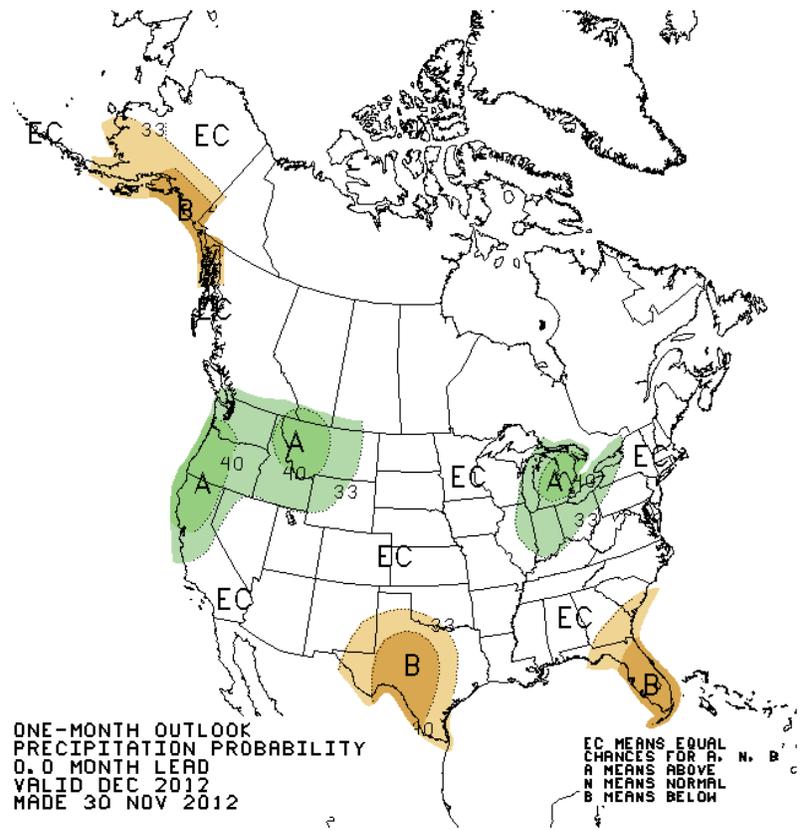
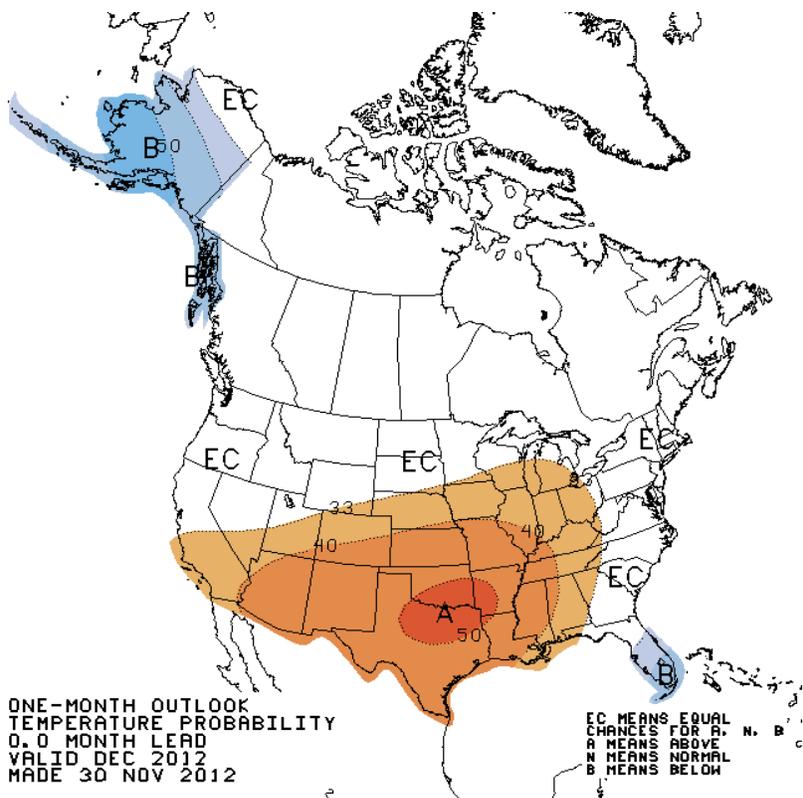


FIGURE 4: Climate Prediction Center outlooks for December