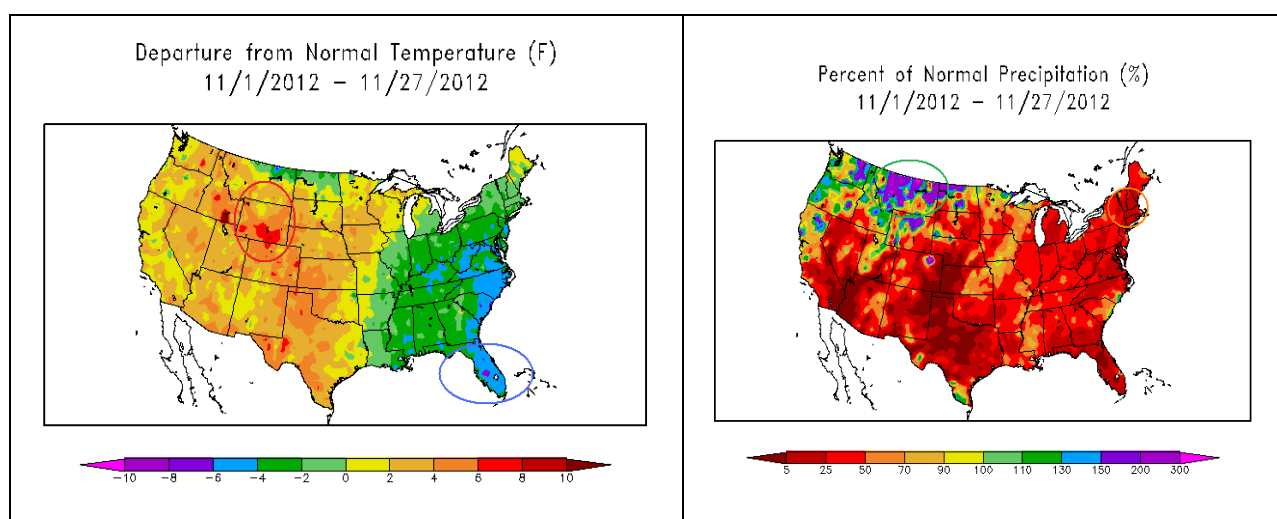


LONG RANGE OUTLOOK

By: Paul Knight and Kyle Imhoff

The anomalies during November have been remarkable, especially in light of how relatively tranquil the weather has been.



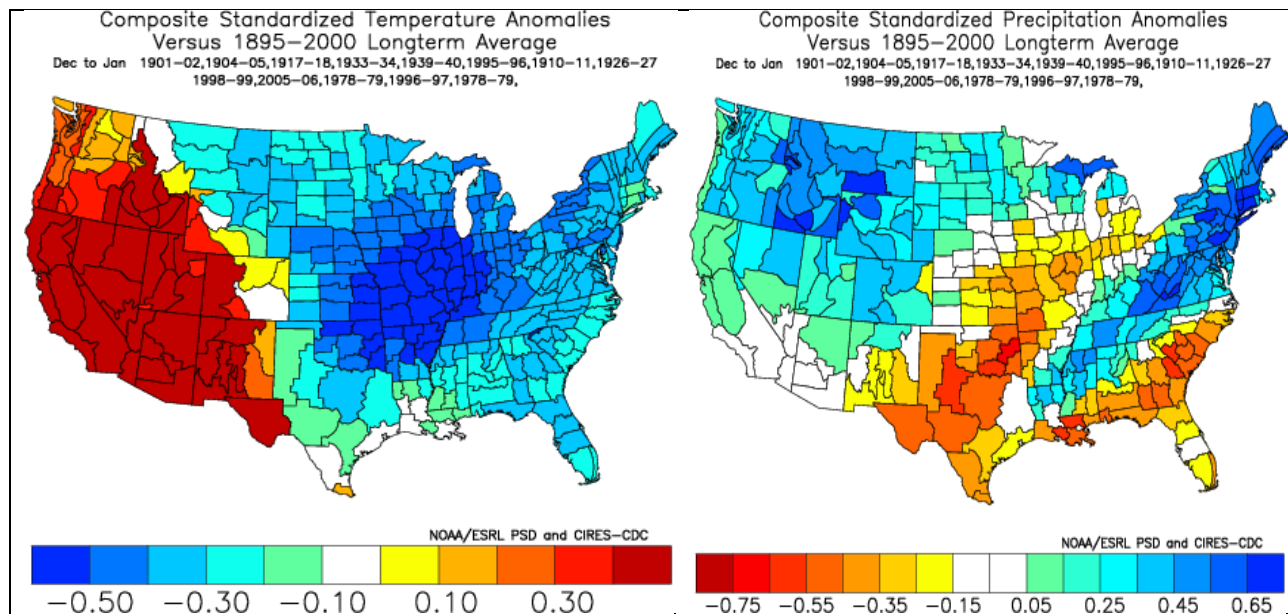
The chill in Florida and warmth in Wyoming along with the dryness in New Hampshire and the moist weather in Montana are the basis of this analog forecast.

	1901	59	WY- Warm	1899	35.5	NH - Dry	1899	2.32	MT- moist	1896	2.26
FL-Chill	1903	62.4		1901	35.9		1901	1.95		1897	2.25
	1904	62		1904	35.7		1902	1.27		1902	1.12
	1910	60.9		1914	34.7		1903	1.64		1906	1.34
	1912	62.4		1917	36.7		1904	1.51		1909	1.81
	1917	60		1927	33.9		1905	2.56		1910	1.54
	1923	61.6		1932	33.5		1906	2.71		1921	1.47
	1926	62.2		1933	34.5		1908	1.27		1926	1.37
	1932	62		1934	34.3		1909	2.64		1927	2.13
	1933	62.7		1939	34.2		1913	2.29		1941	1.13
	1937	62.1		1949	39.4		1917	0.83		1942	1.33
	1939	62.3		1953	35.6		1922	1.56		1946	1.1
	1943	62.8		1954	36.5		1928	2.79		1955	1.33

1949	61.7	1962	35.2	1929	2.81	1958	1.7
1950	61.4	1963	34	1931	1.35	1959	1.46
1951	62.3	1965	35.4	1933	1.81	1966	1.15
1954	62.1	1981	34.9	1936	2.15	1973	1.38
1956	62.4	1990	33.6	1939	0.68	1978	1.34
1962	61	1995	34	1946	2.09	1985	1.12
1968	61.1	1998	33.7	1952	2.02	1986	1.2
1969	61.6	1999	38.8	1976	1.61	1989	1.16
1970	60.3	2001	34.2	1978	1.91	1995	1.22
1976	60.4	2005	33.6	1981	2.72	1996	1.39
1991	62.7	2007	33.6	1987	2.48	1998	1.24
1995	63	2008	36.4	1996	2.47	2005	1.21
2008	61.4	2009	34.4	2001	2.02	2010	1.43

The years highlighted in yellow are common to three of anomalies, while those in orange are common to two anomalies with the Montana moist being the basis.

The composite December-January U.S. Temp and Precip maps are below:



The following analogs show a remarkably wintry pattern expected for the eastern two-thirds of the country for December and January with below normal temperatures and above average precipitation in the Northeast, including Pennsylvania.