



# Weather Home Companion

## What's All This About Global Warming When We Are So Cold?

Ray Wolf

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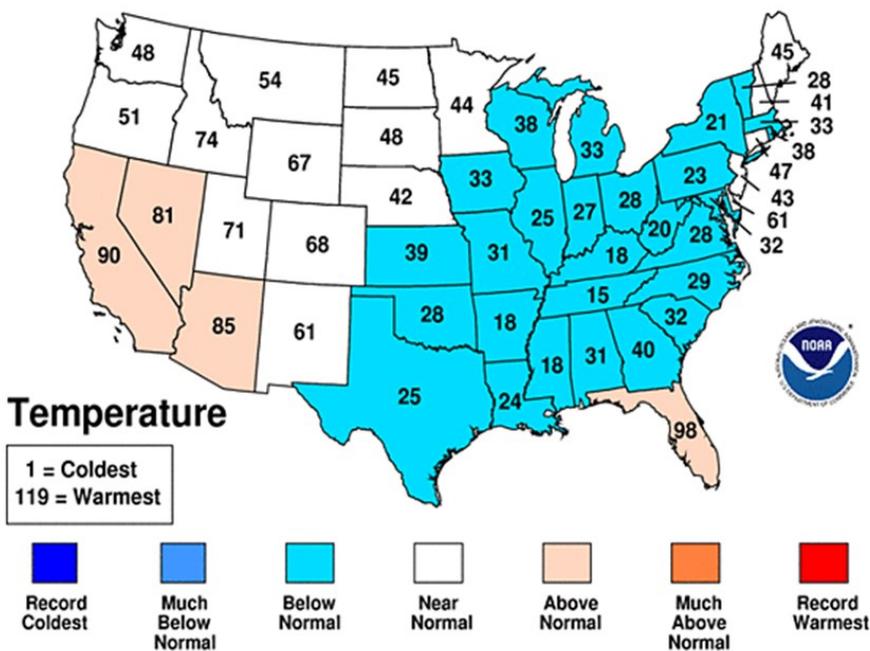
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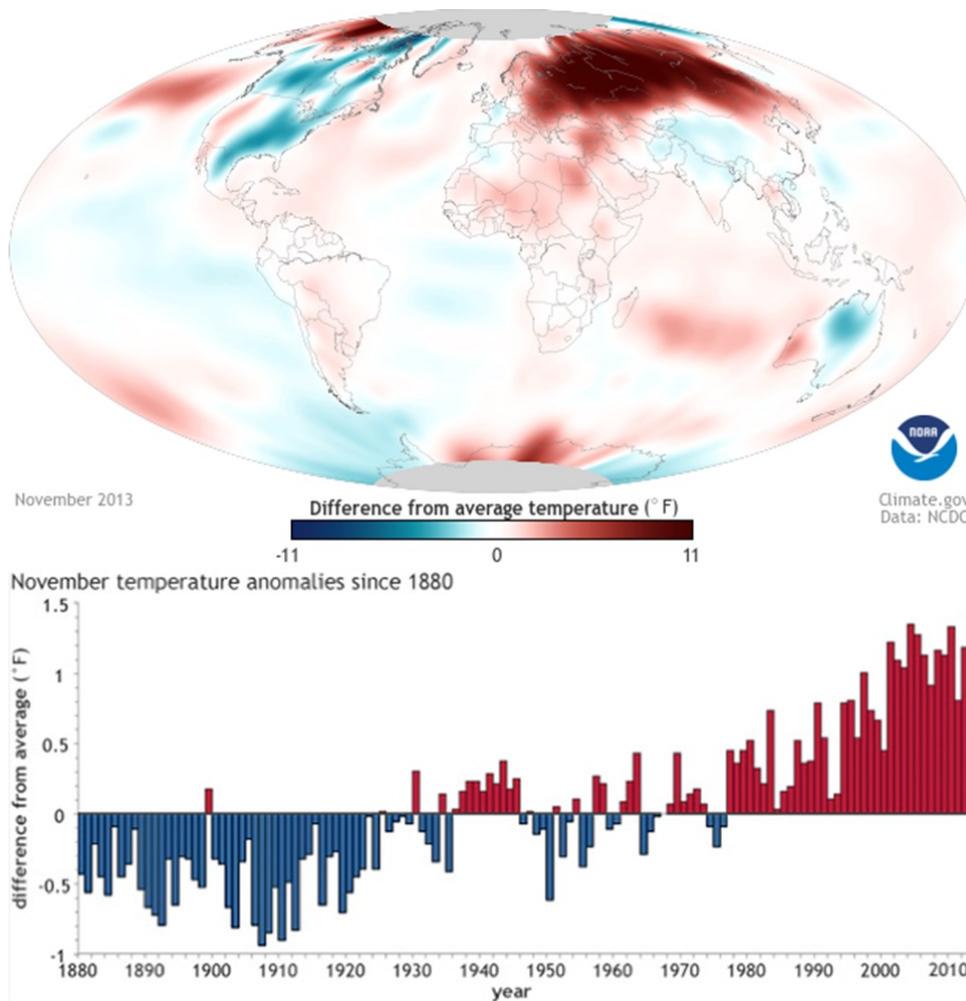
*Weather Home Companion* is a semiannual publication of the National Weather Service office in the Quad Cities.

### November 2013 Statewide Ranks

National Climatic Data Center/NESDIS/NOAA



# What's All This About Global Warming When We Are So Cold?



(Continued from page 1)

Illinois, November 2013 was the 33<sup>rd</sup> coldest in Iowa and 25<sup>th</sup> coldest in Illinois in 119 years, both of which fall into the below normal category. But as we experienced below normal temperatures in November, it was a significantly different story in other parts of the world. The figure above shows areas of above normal (red) and below normal (blue) temperatures from around the globe. The degree of darkness of the red or blue color is proportional to how warm or cold the area was. You can see the blue denoting below normal over parts of the United States and Canada. But look at the large dark red area over Eastern Europe and northern Asia. That area was significantly warmer than normal. Temperatures averaged more than 14 °F above normal in parts of Russia, which ex-

perienced its warmest November since records began in 1891.

So actually from a global perspective, and despite that we were below normal, global temperatures averaged above normal. In fact, this was the warmest November globally on record. The graph above, which depicts the November global temperature anomalies (differences from the 20<sup>th</sup> century average) versus time, shows this point, plus the fact that November temperatures have been trending upward through much of the 20<sup>th</sup> century from a global perspective.

So when considering how our climate is changing, two things are important. First, consider what is going on around the globe, and second, look at the long term trend.

# StormReady Update

Donna Dubberke

Since 1998, the National Weather Service has recognized communities, counties, and organizations that “go the extra mile” through the StormReady program. StormReady recognizes excellence in severe weather communication, preparedness, and safety.



Nov. 21, 2013 Riverside Generating Station StormReady Recognition Ceremony: (left to right) Tim Barton, Tom Redington, Bruce Morris (General Manager), John Frueh (Chairperson), Steve Kuhl (NWS Meteorologist in Charge), Carl Woods, Roger Adams ( Safety Supervisor), Andy Ervin (NWS Senior Forecaster).

In 2013, the NWS Quad Cities newly recognized Davernport, IA and the MidAmerican Energy Company Riverside Generating Station under the StormReady program. Also in 2013, Benton County, IA, McDonough County, IL, Stephenson County, IL, and the Johnson County Conservation board renewed their existing recognitions.

StormReady recognitions are valid for 3 years and then can be renewed. For more about StormReady, visit [www.stormready.noaa.gov](http://www.stormready.noaa.gov)



## What is Wind Chill Temperature?

Steve Kuhl



		Temperature (°F)																		
		Cal	40	35	30	25	20	15	10	5	0	-5	-10	-15	-20	-25	-30	-35	-40	-45
Wind (mph)	5	36	31	25	19	13	7	1	-5	-11	-16	-22	-28	-34	-40	-46	-52	-57	-63	
	10	34	27	21	15	9	3	-4	-10	-16	-22	-28	-35	-41	-47	-53	-59	-66	-72	
	15	32	25	19	13	6	0	-7	-13	-19	-26	-32	-39	-45	-51	-58	-64	-71	-77	
	20	30	24	17	11	4	-2	-9	-15	-22	-29	-35	-42	-48	-55	-61	-68	-74	-81	
	25	29	23	16	9	3	-4	-11	-17	-24	-31	-37	-44	-51	-58	-64	-71	-78	-84	
	30	28	22	15	8	1	-5	-12	-19	-26	-33	-39	-46	-53	-60	-67	-73	-80	-87	
	35	28	21	14	7	0	-7	-14	-21	-27	-34	-41	-48	-55	-62	-69	-76	-82	-89	
40	27	20	13	6	-1	-8	-15	-22	-29	-36	-43	-50	-57	-64	-71	-78	-84	-91		
45	26	19	12	5	-2	-9	-16	-23	-30	-37	-44	-51	-58	-65	-72	-79	-86	-93		
50	26	19	12	4	-3	-10	-17	-24	-31	-38	-45	-52	-60	-67	-74	-81	-88	-95		
55	25	18	11	4	-3	-11	-18	-25	-32	-39	-46	-54	-61	-68	-75	-82	-89	-97		
60	25	17	10	3	-4	-11	-19	-26	-33	-40	-48	-55	-62	-69	-76	-84	-91	-98		

Frostbite Times: 30 minutes (light blue), 10 minutes (medium blue), 5 minutes (dark blue)

Wind Chill (°F) = 35.74 + 0.6215T - 35.75(V<sup>0.16</sup>) + 0.4275T(V<sup>0.16</sup>)  
 Where, T= Air Temperature (°F) V= Wind Speed (mph) Effective 11/01/01

The wind chill temperature is how cold people and animals feel when outside. Wind chill is based on the rate of heat loss from exposed skin caused by wind and cold. As the wind increases, it draws heat from the body, driving down skin temperature and eventually the internal body temperature. Therefore, the wind makes it FEEL much colder. This NWS Wind chill chart shows if the temperature (across top) is 0 degrees and the wind speed (down left side) is blowing at 15 mph, the wind chill is -19 degrees Fahrenheit. At this wind chill temperature, exposed skin can freeze in 30 minutes.

# COOP Program: Length of Service Awards

Thomas Olsen

## Institution: 75 Years

### Le Claire Lock and Dam 14

Corps of Engineering Employees from Le Claire, Iowa Lock and Dam 14, Darrel Navratil (far left), Brad Hank (second from left), and Lock Master Jim Trail (far right), were presented the 75 year Honored Institution Award. NWS Meteorologist-in-Charge Steve Kuhl (third from left), NWS Davenport, IA, presented the award. Weather records for the Lock and Dam 14 date back to March 1938. The Lock and Dam was open on May 13, 1938. Photo by Hydro-meteorological Technician Tom Olsen.



## Institution: 25 Years



### Princeton, Illinois Waste Water Treatment Plant

Water Treatment Plant workers from Princeton, Illinois, Joe Merkel (far left), John Eggert (second from left), and Plant Supervisor Mike Eggert (second from right), were presented the 25 year Honored Institution Award. Plant employees not pictured are Charlie Evans, Brain Drake, Mike Adams, Tony Clementz and Eric Thompson. Hydro-meteorological Technician Tom Olsen (right), NWS Quad Cities, presented the award. Due to scheduling changes after their move to the new plant, the Plant personnel were unable to continue taking observations. Bob Byrne of Princeton, Illinois assumed primary duties from the Princeton WWTP starting in August of 2013. Thank you Princeton Water Treatment Plant for your dedication to the COOP Observing Program over the past 25 years. Photo taken by Tom Philip.

### Institution: 25 Years



#### Radio Station KILJ in Mount Pleasant, Iowa

The Mount Pleasant, IA Radio Station KILJ owner Paul Dennison (right), accepted a 25 Year Honored Institution Award from Hydro-meteorological Technician Tom Olsen (left), NWS Quad Cities. Primary observer, John Kuhens, was not available. In addition to taking daily temperature and precipitation readings, John also downloads data from the FPR-E every month. Photo by Steve Kuhl, Meteorologist-in-Charge NWS Quad Cities.

#### Rock Island Lock and Dam 15

Corps of Engineering Lockmaster, Steve Felderman, accepted the 25 Year Honored Institution Award on behalf of all Rock Island, Illinois Lock and Dam 15 employees. The award was presented by Meteorologist-in-Charge Steve Kuhl of NWS Quad Cities. Photo taken by Hydro-meteorological Technician Tom Olsen.



### Institution: 25 Years



#### University of Illinois Northwestern Agriculture Research Center, Monmouth, IL

Monmouth, IL extension of the University of Illinois Northwestern Agriculture Research Center Employees Marty Johnson and Brian Mansfield (from left to right), were presented the 25 year Honored Institution Award. Meteorologist Intern Tim Gross (taking picture), NWS Quad Cities, presented the award. Each year, about 50 different projects are conducted on the 320 acre site by up to 12 campus-based project leaders and the center superintendent.

### Individual: 20 Years



#### Helen and Robert St. Clair, Luray, MO

Helen and Robert St. Clair of Luray Missouri were presented a 20 year Length of Service Award. In addition to taking daily precipitation readings, Helen and Robert download data from the Fischer Porter Replacement (FPR-E) monthly. The staff at the National Weather Service Office in Davenport, Iowa thanks you both for volunteering your time and energy to the COOP Observing Program. Presenting the award was NWS Quad Cities Hydro-meteorological Technician Tom Olsen.

## COOP Observer Retirements

- \* Princeton, IL Water Filtration Plant Employees: 25 plus years of service (see page 5)
- \* Mr. Myron Bohrn, Williamsburg, IA: 5 years of service

Thank you all for your dedication and contributions to the NWS COOP Observing Program.

## New COOP Observers

- \* Dean McCormick, Aledo, IL: Started April 2013
- \* Bob Byrne, Princeton, IL: Assumed primary duties from the Princeton Waste Water Treatment Plant, starting August, 2013

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