

THE HOCKEY SCHTICK

If you can't explain the 'pause', you can't explain the cause...

Monday, July 16, 2012

New paper finds global warming over past century was only about half of IPCC claims

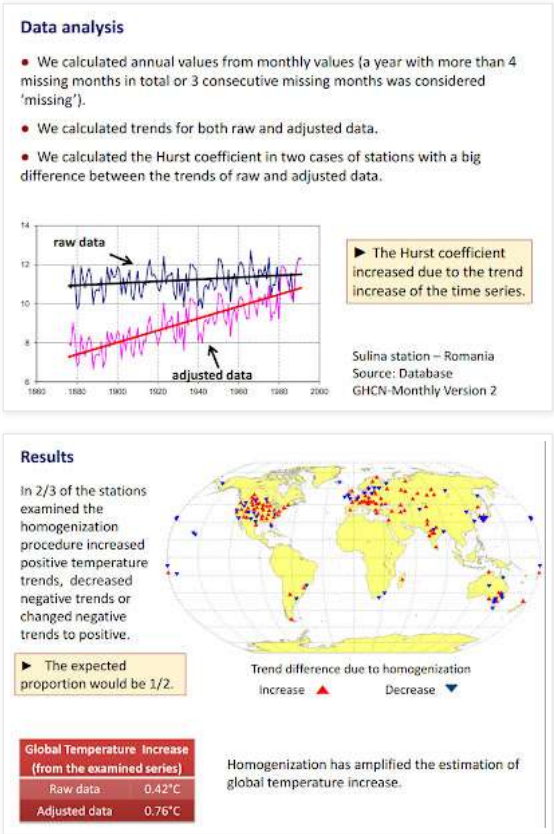
A recent paper presented at the European Geosciences Union meeting finds global warming over the past century was only about one-half [0.42°C] of that claimed by the IPCC [0.7-0.8°C]. The paper finds that in 2/3 (67%) of the weather stations examined, questionable adjustments were made to raw data that resulted in "increased positive trends, decreased negative trends, or changed negative trends to positive," whereas "the expected proportions would be 1/2 (50%)." According to the authors,

"homogenization practices [adjustments to raw data] used until today are mainly statistical, not well justified by experiments, and are rarely supported by metadata. It can be argued that they often lead to false results: natural features of hydroclimatic times series are regarded as errors and are adjusted."

"While homogenization is expected to increase or decrease the existing multiyear trends in equal proportions, the fact is that in 2/3 of the cases the trends increased after homogenization"

"The above results cast some doubts in the use of homogenization procedures and tend to indicate that the global temperature increase during the last century is smaller than 0.7-0.8°C"

selected slides below, full presentation available here



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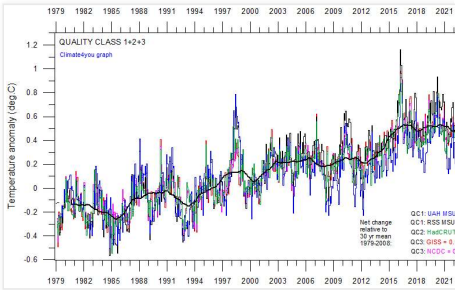
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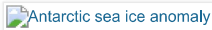
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Global monthly temperature anomaly



Antarctic sea ice anomaly



Arctic sea ice anomaly



Global sea ice

Conclusions

1. Homogenization is necessary to remove errors introduced in climatic time series.

2. Homogenization practices used until today are mainly statistical, not well justified by experiments and are rarely supported by metadata. It can be argued that they often lead to false results: natural features of hydroclimatic time series are regarded errors and are adjusted.

3. While homogenization is expected to increase or decrease the existing multiyear trends in equal proportions, the fact is that in 2/3 of the cases the trends increased after homogenization.

4. The above results cast some doubts in the use of homogenization procedures and tend to indicate that the global temperature increase during the last century is smaller than 0.7-0.8°C.

5. A new approach of the homogenization procedure is needed, based on experiments, metadata and better comprehension of the stochastic characteristics of hydroclimatic time series.

Investigation of methods for hydroclimatic data homogenization

Steirou, E., and D. Koutsoyiannis, Investigation of methods for hydroclimatic data homogenization, *European Geosciences Union General Assembly 2012, Geophysical Research Abstracts, Vol. 14*, Vienna, 956-1, European Geosciences Union, 2012.

We investigate the methods used for the adjustment of inhomogeneities of temperature time series covering the last 100 years. Based on a systematic study of scientific literature, we classify and evaluate the observed inhomogeneities in historical and modern time series, as well as their adjustment methods. It turns out that these methods are mainly statistical, not well justified by experiments and are rarely supported by metadata. In many of the cases studied the proposed corrections are not even statistically significant.

From the global database GHCN-Monthly Version 2, we examine all stations containing both raw and adjusted data that satisfy certain criteria of continuity and distribution over the globe. In the United States of America, because of the large number of available stations, stations were chosen after a suitable sampling. In total we analyzed 181 stations globally. For these stations we calculated the differences between the adjusted and non-adjusted linear 100-year trends. It was found that in the two thirds of the cases, the homogenization procedure increased the positive or decreased the negative temperature trends. One of the most common homogenization methods, 'SNHT for single shifts', was applied to synthetic time series with selected statistical characteristics, occasionally with offsets. The method was satisfactory when applied to independent data normally distributed, but not in data with long-term persistence. The above results cast some doubts in the use of homogenization procedures and tend to indicate that the global temperature increase during the last century is between 0.4°C and 0.7°C, where these two values are the estimates derived from raw and adjusted data, respectively.

Full text:

Presentation (1071 KB)

Abstract (35 KB)

See comment below from wattsupwiththat regarding source

Posted by MS at 10:37 AM

6 comments:

Anonymous July 16, 2012 at 8:33 PM

Steve Goddard has been posting about massive adjustments to the U.S. data.
<http://stevengoddard.wordpress.com/2012/07/16/how-ushcn-hides-the-decline-in-us-temperatures/>

Reply

Replies

MS July 16, 2012 at 9:26 PM

Yes highly recommended

Deja vu for the New Zealand government database which is now the subject of a court battle.

Reply

Replies

Anonymous July 16, 2012 at 9:27 PM

I have been watching the monthly adjustment changes at NCDC. Every months the previously made adjustments are adjusted even more. As a result, with every passing month the past before about 1950 is adjusted colder and the more recent data since then are adjusted warmer. It's just a mess and nobody wants to go on record explaining the process or producing the methodology used.

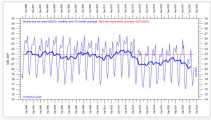
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Replies

MS July 16, 2012 at 10:17 PM

Astonishing the lengths to which so-called scientists will go to pay tribute to the global warming religious dogma

Reply



Global sea ice anomaly

Global sea ice anomaly

Sunspot area

Sunspot area

What the media isn't telling you about climate change

What the media isn't telling you about climate change

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Climate scientist Dr. Murry Salby

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