BOMBSHELL – NOAA whistleblower says Karl et al. "pausebuster" paper was hyped, broke procedures

Anthony Watts / 23 hours ago

They played fast and loose with the figures -NOAA whistleblower

The Mail on Sunday today reveals astonishing evidence that the organisation that is the world's leading source of climate data rushed to publish a landmark paper that exaggerated global warming and was timed to influence the historic Paris Agreement on climate change.

A high-level whistleblower has told this newspaper that America's National Oceanic and Atmospheric Administration (NOAA) breached its own rules on scientific integrity when it published the sensational but flawed report, aimed at making the maximum possible impact on world leaders including Barack Obama and David Cameron at the UN climate conference in Paris in 2015.

The report claimed that the 'pause' or 'slowdown' in global warming in the period since 1998 – revealed by UN scientists in 2013 – never existed, and that world temperatures had been rising faster than scientists expected. Launched by NOAA with a public relations fanfare, it was splashed across the world's media, and cited repeatedly by politicians and policy makers.

But the whistleblower, Dr John Bates, a top NOAA scientist with an impeccable reputation, has shown The Mail on Sunday irrefutable evidence that the paper was based on misleading, 'unverified' data.

It was never subjected to NOAA's rigorous internal evaluation process – which Dr Bates devised. His vehement objections to the publication of the faulty data were overridden by his NOAA superiors in what he describes as a 'blatant attempt to intensify the impact' of what became known as the Pausebuster paper.

His disclosures are likely to stiffen President Trump's determination to enact his pledges to reverse his predecessor's 'green' policies, and to withdraw from the Paris deal – so triggering an intense political row.

In an exclusive interview, Dr Bates accused the lead author of the paper, Thomas Karl, who was until last year director of the NOAA section that produces climate data – the National Centers for Environmental Information (NCEI) – of 'insisting on decisions and scientific choices that maximised warming and minimised documentation... in an effort to discredit the notion of a global warming pause, rushed so that he could time publication to influence national and international deliberations on climate policy'. Dr Bates was one of two Principal Scientists at NCEI, based in Asheville, North Carolina.

A blatant attempt to intensify paper's impact

Official delegations from America, Britain and the EU were strongly influenced by the flawed NOAA study as they hammered out the Paris Agreement – and committed advanced nations to sweeping reductions in their use of fossil fuel and to spending £80 billion every year on new, climate-related aid projects. The scandal has disturbing echoes of the 'Climategate' affair which broke shortly before the UN climate summit in 2009, when the leak of thousands of emails between climate scientists suggested they had manipulated and hidden data. Some were British experts at the influential Climatic Research Unit at the University of East Anglia.

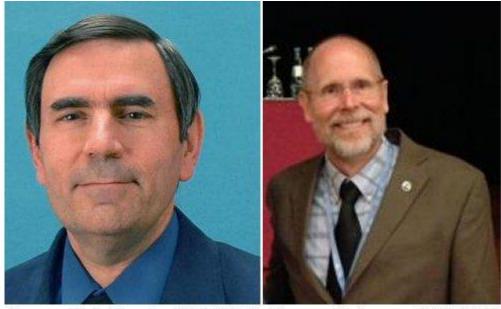
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Dr Bates retired from NOAA at the end of last year after a 40-year career in meteorology and climate science. As recently as 2014, the Obama administration awarded him a special gold medal for his work in setting new, supposedly binding standards 'to produce and preserve climate data records'. Yet when it came to the paper timed to influence the Paris conference, Dr Bates said, these standards were flagrantly ignored.

The paper was published in June 2015 by the journal Science. Entitled 'Possible artifacts of data biases in the recent global surface warming

•••

In the weeks after the Pausebuster paper was published, Dr Bates conducted a one-man investigation into this. His findings were extraordinary. Not only had Mr Karl and his colleagues failed to follow any of the formal procedures required to approve and archive their data, they had used a 'highly experimental early run' of a programme that tried to combine two previously separate sets of records.



Thomas Karl, Director NCEI/NCDC Thomas Peterson, NCEI/NCDC

This had undergone the critical process known as 'pairwise homogeneity adjustment', a method of spotting 'rogue' readings from individual weather stations by comparing them with others nearby.

However, this process requires extensive, careful checking which was only just beginning, so that the data was not ready for operational us

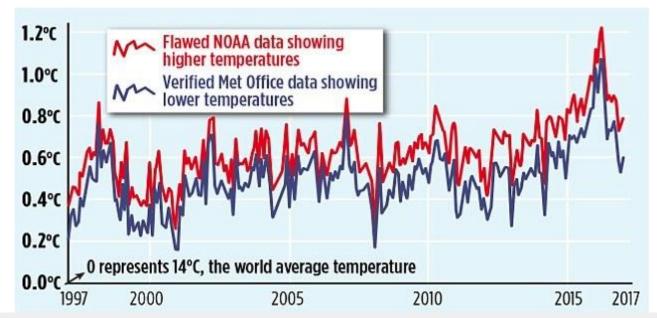
Now, more than two years after the Pausebuster paper was submitted to Science, the new version of GHCN is still undergoing testing.

Moreover, the GHCN software was afflicted by serious bugs. They caused it to become so 'unstable' that every time the raw temperature readings were run through the computer, it gave different results. The new, bug-free version of GHCN has still not been approved and issued. It is, Dr Bates said, 'significantly different' from that used by Mr Karl and his co-authors.

Dr Bates revealed that the failure to archive and make available fully documented data not only violated NOAA rules, but also those set down by Science. Before he retired last year, he continued to raise the issue internally. Then came the final bombshell. Dr Bates said: 'I learned that the computer used to process the software had suffered a complete failure.'

The reason for the failure is unknown, but it means the Pausebuster paper can never be replicated or verified by other scientists.

. . .



The misleading 'pausebuster chart': The red line shows the current NOAA world temperature graph – which relies on the 'adjusted' and unreliable sea data cited in the flawed 'Pausebuster' paper. The blue line is the

UK Met Office's independently tested and verified 'HadCRUT4' record – showing lower monthly readings and a shallower recent warming trend

He said he decided to speak out after seeing reports in papers including the Washington Post and Forbes magazine claiming that scientists feared the Trump administration would fail to maintain and preserve NOAA's climate records.

Dr Bates said: 'How ironic it is that there is now this idea that Trump is going to trash climate data, when key decisions were earlier taken by someone whose responsibility it was to maintain its integrity – and failed.'

NOAA not only failed, but it effectively mounted a cover-up when challenged over its data. After the paper was published, the US House of Representatives Science Committee launched an inquiry into its Pausebuster claims. NOAA refused to comply with subpoenas demanding internal emails from the committee chairman, the Texas Republican Lamar Smith, and falsely claimed that no one had raised concerns about the paper internally.

Last night Mr Smith thanked Dr Bates 'for courageously stepping forward to tell the truth about NOAA's senior officials playing fast and loose with the data in order to meet a politically predetermined conclusion'. He added: 'The Karl study used flawed data, was rushed to publication in an effort to support the President's climate change agenda, and ignored NOAA's own standards for scientific study.'

Last night Mr Karl admitted the data had not been archived when the paper was published. Asked why he had not waited, he said: 'John Bates is talking about a formal process that takes a long time.' He denied he was rushing to get the paper out in time for Paris, saying: 'There was no discussion about Paris.' He also admitted that the final, approved and 'operational' edition of the GHCN land data would be 'different' from that used in the paper'.

Read the entire extraordinary expose by David

Rose here:http://www.dailymail.co.uk/sciencetech/article-4192182/World-leaders-duped-manipulatedglobal-warming-data.html#ixzz4XlWgDL48 http://www.dailymail.co.uk/sciencetech/article-4192182/World-leaders-duped-manipulated-global-warmingdata.htm

Exposed: How world leaders were duped into investing billions over manipulated global warming data

- The Mail on Sunday can reveal a landmark paper exaggerated global warming
- It was rushed through and timed to influence the Paris agreement on climate change
- America's National Oceanic and Atmospheric Administration broke its own rules
- The report claimed the pause in global warming never existed, but it was based on misleading, 'unverified' data

By <u>David Rose for The Mail on Sunday</u> 2017 | **UPDATED:** 15:12 GMT, 5 February 2017 PUBLISHED: 22:57 GMT, 4 February



Data Science, Climate and satellites Consultant John J Bates, who blew the whistle to the Mail on Sunday The Mail on Sunday today reveals astonishing evidence that the organisation that is the world's leading source of climate data rushed to publish a landmark paper that exaggerated global warming and was timed to influence the historic Paris Agreement on climate change.

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EXCLUSIVE: 'We must



Canadian Prime Minister Justin Trudeau, Microsoft CEO Bill Gates, US President Barack Obama, French President Francois Hollande and Indian Prime Minister Narendra Modi at the world climate change conference



The PM, the Prince and 'the pause': David Cameron and Prince Charles attended the historic 2015 Paris climate change conference with 150 world leaders. Cameron committed Britain to an EU-Wide emission cut as a result. And Charles, writing in this paper last month, stated there was no pause in global warming, influenced by the flawed NOAA paper that made this claim

In an exclusive interview, Dr Bates accused the lead author of the paper, Thomas Karl, who was until last year director of the NOAA section that produces climate data – the National Centers for Environmental Information (NCEI) – of 'insisting on decisions and scientific choices that maximised warming and minimised documentation... in an effort to discredit the notion of a global warming pause, rushed so that he could time publication to influence national and international deliberations on climate policy'. Dr Bates was one of two Principal Scientists at NCEI, based in Asheville, North Carolina.

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LED TO THESE GREEN COMMITMENTS

Data published by NOAA, the world's top climate data agency, claimed global warming was worse than previously thought. The information was published to coincide with the Paris climate change conference in 2015, where world leaders agreed that...

\$100bn be given every year in extra 'climate-related' aid to the developing world by rich nations 2 degrees C be set as the limit for maximum temperature rise above pre-industrial times

40% of CO2 emissions would be cut across the EU by 2030

£320bn... what the UK's pledges will cost our economy by 2030

NOAA's 2015 'Pausebuster' paper was based on two new temperature sets of data – one containing measurements of temperatures at the planet's surface on land, the other at the surface of the seas. Both datasets were flawed. This newspaper has learnt that NOAA has now decided that the sea dataset will have to be replaced and substantially revised just 18 months after it was issued, because it used unreliable methods which overstated the speed of warming. The revised data will show both lower temperatures and a slower rate in the recent warming trend.

The land temperature dataset used by the study was afflicted by devastating bugs in its software that rendered its findings 'unstable'.

The paper relied on a preliminary, 'alpha' version of the data which was never approved or verified. A final, approved version has still not been issued. None of the data on which the paper was based was properly 'archived' – a mandatory requirement meant to ensure that raw data and the software used to process it is accessible to other scientists, so they can verify NOAA results.

Dr Bates retired from NOAA at the end of last year after a 40-year career in meteorology and climate science. As recently as 2014, the Obama administration awarded him a special gold medal for his work in setting new, supposedly binding standards 'to produce and preserve climate data records'.

Yet when it came to the paper timed to influence the Paris conference, Dr Bates said, these standards were flagrantly ignored.

The paper was published in June 2015 by the journal Science. Entitled 'Possible artifacts of data biases in the recent global surface warming hiatus', the document said the widely reported 'pause' or 'slowdown' was a myth.

Less than two years earlier, a blockbuster report from the UN Intergovernmental Panel on Climate Change (IPCC), which drew on the work of hundreds of scientists around the world, had found 'a much smaller increasing trend over the past 15 years 1998-2012 than over the past 30 to 60 years'. Explaining the pause became a key issue for climate science. It was seized on by global warming sceptics, because the level of CO2 in the atmosphere had continued to rise.

WHY OBAMA'S GREEN GURU WILL MAKE TRUMP SEE RED

NOAA's climate boss Thomas Karl, below left, had a hotline to the White House, through his long association with President Obama's science adviser, John Holdren.



Karl's 'Pausebuster' paper was hugely influential in dictating the world agreement in Paris and sweeping US emissions cuts. President Trump, above right, has pledged to scrap both policies – triggering furious claims by Democrats he is a climate 'denier' and 'anti-science'.

Thanks to today's MoS story, NOAA is set to face an inquiry by the Republican-led House science committee.

Some scientists argued that the existence of the pause meant the world's climate is less sensitive to greenhouse gases than previously thought, so that future warming would be slower. One of them, Professor Judith Curry, then head of climate science at the Georgia Institute of Technology, said it suggested that computer models used to project future warming were 'running too hot'.

However, the Pausebuster paper said while the rate of global warming from 1950 to 1999 was 0.113C per decade, the rate from 2000 to 2014 was actually higher, at 0.116C per decade. The IPCC's claim about the pause, it concluded, 'was no longer valid'.

The impact was huge and lasting. On publication day, the BBC said the pause in global warming was 'an illusion caused by inaccurate data'.

One American magazine described the paper as a 'science bomb' dropped on sceptics.

Its impact could be seen in this newspaper last month when, writing to launch his Ladybird book about climate change, Prince Charles stated baldly: 'There isn't a pause... it is hard to reject the facts on the basis of the evidence.'

Data changed to make the sea appear warmer

The sea dataset used by Thomas Karl and his colleagues – known as Extended Reconstructed Sea Surface Temperatures version 4, or ERSSTv4, tripled the warming trend over the sea during the years 2000 to 2014 from just 0.036C per decade – as stated in version 3 – to 0.099C per decade. Individual measurements in some parts of the globe had increased by about 0.1C and this resulted in the dramatic increase of the overall global trend published by the Pausebuster paper. But Dr Bates said this increase in temperatures was achieved by dubious means. Its key error was an upwards 'adjustment' of readings from fixed and floating buoys, which are generally reliable, to bring them into line with readings from a much more doubtful source – water taken in by ships. This, Dr Bates explained, has long been known to be questionable: ships are themselves sources of heat, readings will vary from ship to ship, and the depth of water intake will vary according to how heavily a ship is laden – so affecting temperature readings.

Dr Bates said: 'They had good data from buoys. And they threw it out and "corrected" it by using the bad data from ships. You never change good data to agree with bad, but that's what they did – so as to make it look as if the sea was warmer.'

ERSSTv4 'adjusted' buoy readings up by 0.12C. It also ignored data from satellites that measure the temperature of the lower atmosphere, which are also considered reliable. Dr Bates said he gave the paper's co-authors 'a hard time' about this, 'and they never really justified what they were doing.'

Now, some of those same authors have produced the pending, revised new version of the sea dataset – ERSSTv5. A draft of a document that explains the methods used to generate version 5, and which has been

seen by this newspaper, indicates the new version will reverse the flaws in version 4, changing the buoy adjustments and including some satellite data and measurements from a special high-tech floating buoy network known as Argo. As a result, it is certain to show reductions in both absolute temperatures and recent global warming.

The second dataset used by the Pausebuster paper was a new version of NOAA's land records, known as the Global Historical Climatology Network (GHCN), an analysis over time of temperature readings from about 4,000 weather stations spread across the globe.



The unstable land readings: Scientists at NOAA used land temperature data from 4,000 weather stations (pictured, one in Montana, USA). But the software used to process the figures was bug-ridden and unstable. NOAA also used 'unverified' data that was not tested or approved. This data as merged with unreliable sea surface temperatures



The 'adjusted' sea readings: Average sea surface temperatures are calculated using data from weather buoys (pictured). But NOAA 'adjusted' these figures upwards to fit with data taken from ships – which is

notoriously unreliable. This exaggerated the warming rate, allowing NOAA to claim in the paper dubbed the 'Pausebuster' that there was no 'pause'

This new version found past temperatures had been cooler than previously thought, and recent ones higher – so that the warming trend looked steeper. For the period 2000 to 2014, the paper increased the rate of warming on land from 0.15C to 0.164C per decade.

In the weeks after the Pausebuster paper was published, Dr Bates conducted a one-man investigation into this. His findings were extraordinary. Not only had Mr Karl and his colleagues failed to follow any of the formal procedures required to approve and archive their data, they had used a 'highly experimental early run' of a programme that tried to combine two previously separate sets of records.

This had undergone the critical process known as 'pairwise homogeneity adjustment', a method of spotting 'rogue' readings from individual weather stations by comparing them with others nearby.

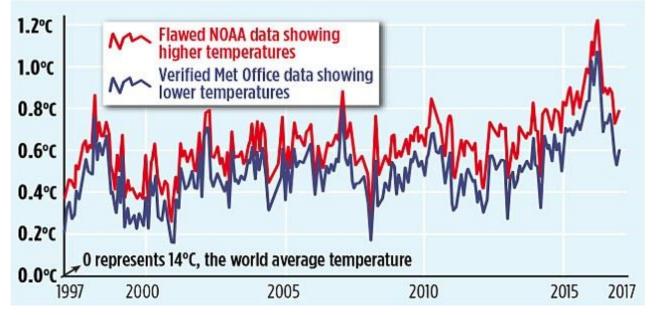
However, this process requires extensive, careful checking which was only just beginning, so that the data was not ready for operational use. Now, more than two years after the Pausebuster paper was submitted to Science, the new version of GHCN is still undergoing testing.

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Dr Bates revealed that the failure to archive and make available fully documented data not only violated NOAA rules, but also those set down by Science. Before he retired last year, he continued to raise the issue internally. Then came the final bombshell. Dr Bates said: 'I learned that the computer used to process the software had suffered a complete failure.'

The reason for the failure is unknown, but it means the Pausebuster paper can never be replicated or verified by other scientists.

The flawed conclusions of the Pausebuster paper were widely discussed by delegates at the Paris climate change conference. Mr Karl had a longstanding relationship with President Obama's chief science adviser, John Holdren, giving him a hotline to the White House.



The red line shows the current NOAA world temperature graph - elevated in recent years due to the 'adjusted' sea data. The blue line is the Met Office's independent HadCRUT4 record. Although they are offset in temperature by 0.12°C due to different analysis techniques, they reveal that NOAA has been adjusted and so shows a steeper recent warming trend.



They were forced to correct it: 18 months after the 'Pausebuster' paper was published in time for the 2015 Paris climate change conference, NOAA's flawed sea temperature dataset is to be replaced. The new version will remedy its failings, and use data from both buoys and satellites (pictured) – which some say is the best data of all. The new version will show both lower temperatures and a lower warming trend since 2000 Mr Holdren was also a strong advocate of robust measures to curb emissions. Britain's then Prime Minister David Cameron claimed at the conference that '97 per cent of scientists say climate change is urgent and man-made and must be addressed' and called for 'a binding legal mechanism' to ensure the world got no more than 2C warmer than in pre-industrial times.

President Obama stressed his Clean Power Plan at the conference, which mandates American power stations to make big emissions cuts.

President Trump has since pledged he will scrap it, and to withdraw from the Paris Agreement. Whatever takes its place, said Dr Bates, 'there needs to be a fundamental change to the way NOAA deals with data so that people can check and validate scientific results. I'm hoping that this will be a wake-up call to the climate science community – a signal that we have to put in place processes to make sure this kind of crap doesn't happen again.

'I want to address the systemic problems. I don't care whether modifications to the datasets make temperatures go up or down. But I want the observations to speak for themselves, and for that, there needs to be a new emphasis that ethical standards must be maintained.'

He said he decided to speak out after seeing reports in papers including the Washington Post and Forbes magazine claiming that scientists feared the Trump administration would fail to maintain and preserve NOAA's climate records.

Dr Bates said: 'How ironic it is that there is now this idea that Trump is going to trash climate data, when key decisions were earlier taken by someone whose responsibility it was to maintain its integrity – and failed.'

NOAA not only failed, but it effectively mounted a cover-up when challenged over its data. After the paper was published, the US House of Representatives Science Committee launched an inquiry into its Pausebuster claims. NOAA refused to comply with subpoenas demanding internal emails from the committee chairman, the Texas Republican Lamar Smith, and falsely claimed that no one had raised concerns about the paper internally.

Last night Mr Smith thanked Dr Bates 'for courageously stepping forward to tell the truth about NOAA's senior officials playing fast and loose with the data in order to meet a politically predetermined conclusion'. He added: 'The Karl study used flawed data, was rushed to publication in an effort to support the President's climate change agenda, and ignored NOAA's own standards for scientific study.'

Professor Curry, now the president of the Climate Forecast Applications Network, said last night: 'Large adjustments to the raw data, and substantial changes in successive dataset versions, imply substantial uncertainties.'

It was time, she said, that politicians and policymakers took these uncertainties on board.

Last night Mr Karl admitted the data had not been archived when the paper was published. Asked why he had not waited, he said: 'John Bates is talking about a formal process that takes a long time.' He denied he was rushing to get the paper out in time for Paris, saying: 'There was no discussion about Paris.' *They played fast and loose with the figures*

He also admitted that the final, approved and 'operational' edition of the GHCN land data would be 'different' from that used in the paper'.

As for the ERSSTv4 sea dataset, he claimed it was other records – such as the UK Met Office's – which were wrong, because they understated global warming and were 'biased too low'. Jeremy Berg, Science's editor-in-chief, said: 'Dr Bates raises some serious concerns. After the results of any appropriate investigations... we will consider our options.' He said that 'could include retracting that paper'.NOAA declined to comment.

It's not the first time we've exposed dodgy climate data, which is why we've dubbed it: Climate Gate 2

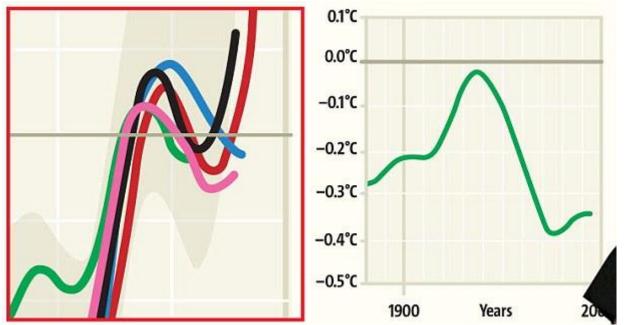


Helena Christensen addresses demonstrators in the center of Copenhagen on climate change Dr John Bates's disclosures about the manipulation of data behind the 'Pausebuster' paper is the biggest scientific scandal since 'Climategate' in 2009 when, as this paper reported, thousands of leaked emails revealed scientists were trying to block access to data, and using a 'trick' to conceal embarrassing flaws in their claims about global warming.

Both scandals suggest a lack of transparency and, according to Dr Bates, a failure to observe proper ethical standards.

Because of NOAA 's failure to 'archive' data used in the paper, its results can never be verified.

Like Climategate, this scandal is likely to reverberate around the world, and reignite some of science's most hotly contested debates.



Left, blowing up the graph show is disappears in 1961 artfully hidden behind the other colours. Right, the reason? Because this is what it shows after 1961, a dramatic decline in global temperatures

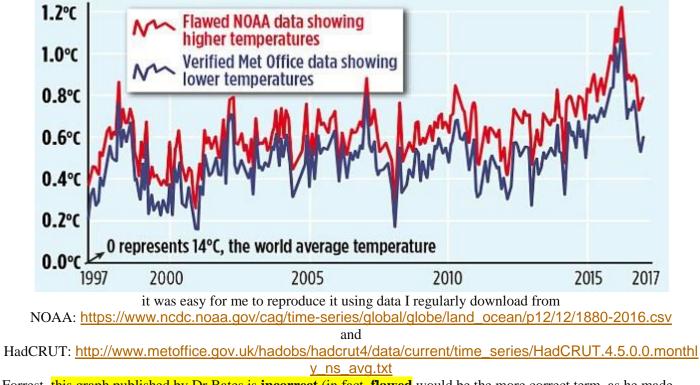
Has there been an unexpected pause in global warming? If so, is the world less sensitive to carbon dioxide than climate computer models suggest?

And does this mean that truly dangerous global warming is less imminent, and that politicians' repeated calls for immediate 'urgent action' to curb emissions are exaggerated?

Research explains when climate change first emerged in records

Read more: <u>http://www.dailymail.co.uk/sciencetech/article-4192182/World-leaders-duped-manipulated-global-warming-data.html#ixzz4XrFPz3FR</u> Follow us: <u>@MailOnline on Twitter | DailyMail on Facebook</u> Bindidon February 5, 2017 at 9:46 am Forrest Gardener on February 4, 2017 at 4:55 pm Retirement can be a very liberating thing for those with a conscience.

Well, Forrest Gardener: to this statement I agree at 100 %. But ... after having had a short look at the graph below

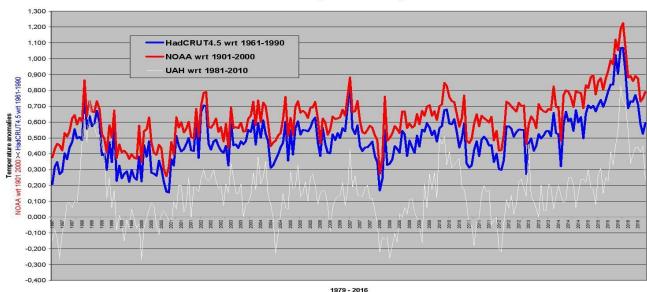


Forrest, this graph published by Dr Bates is **incorrect** (in fact, **flawed** would be the more correct term, as he made himself use of it).

Why?

Simply because it gives you the impression that the two plots in the graph are deltas relative to a common base of 14 °C, and thus are **comparable absolute** values. But they aren't at all.

Here is the reproduction of the two time series using Excel:



Incorrect comparison of NOAA and HadCRUT temperature anomalies Data shown according to two different climatologie

with respect to these institutions' own baseline period (called climatology)

– NOAA: 1901 – 2000

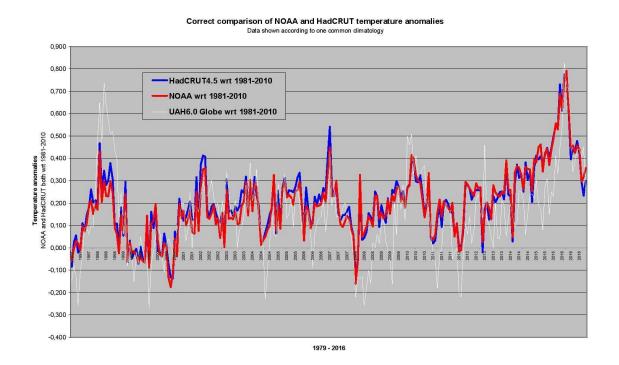
– HadCRUT: 1961 – 1990

To make things even more understandible, I added in thin white a plot of satellite data based of course on anomalies wrt to their own baseline period:

- UAH6.0: 1981 - 2010

Following Dr Bates opinion concerning NOAA vs. HadCRUT, everybody would say: "Wow! Look at these flawed surface datasets! Incredible!" because they seem to show, over the same period, by far higher temperatures than does the satellite record.

Now look at the following graph, in which all plots represent temperature anomalies wrt the same baseline period (the one chosen by UAH):



Not only you can see that the NOAA data does not contain anything flawed compared with HadCRUT! You also see that though the satellite record undoubtedly shows lower trends, it is far nearer to surface records than many pretend.

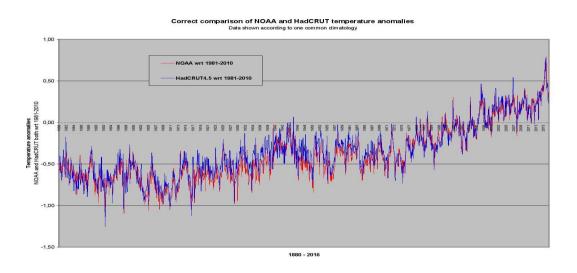
NOAA shows, for 1997-2016, a higher linear trend than that of HadCRUT:

– NOAA: 0.161 ± 0.014 °C / decade;

– HadCRUT: 0.133 ± 0.015 °C / decade.

But this is, as can be seen on the graph, due to HadCRUT being both warmer than NOAA between 1997 and 2008 and cooler between 2008 and 2016.

A last detail: look at the graph below showing the (correctly computed) plots, for again NOAA vs. HadCRUT, but this time during the period 1880 - 2016:



The linear trends for this longer period: $- NOAA: 0.069 \pm 0.001$ °C / decade;

– HadCRUT: 0.066 ± 0.001 °C / decade.

So i'm sorry, Forrest: the truth imho does not seem to be on the side of Dr Bates, regardless wether his illmade comparison of NOAA with HadCRUT was due to incompetence, inadvertance or intention. Eric H February 4, 2017 at 4:56 pm "No discussion about Paris..."

There should be an immediate request by the Trump admin for all Karl et al. email communications to be searched for the keyword "Paris"... before they have a chance to "crash" their computers. Reply

- Janice Moore February 4, 2017 at 5:05 pm Also, add the search term: "city which must not be named"
- <u>ATheok</u> February 4, 2017 at 5:59 pm Perhaps too late Eric H. "'I learned that the computer used to process the software had suffered a complete failure." It sounds like they've started Clintonizing any evidence.

It also sounds like the computer used to process the software is not a unique inviolable production machine, but a run-of-the-mill desktop on somebody's desk.

No computer, no trial data, no code edits, no lists of input variables, no corrections or fudged records... I do agree with your thinking though; that the real FBI should carry out all remaining computers and email servers for proper diagnosis.

Whistleblower evidence should suffice for obtaining the warrant.

co2islife February 4, 2017 at 4:44 pm

It's about time. I knew sooner or later someone was going to develop a conscious. Climate "Science" on Trial; The Consensus is more Con and NonSense than Science

https://co2islife.wordpress.com/2017/01/29/climate-science-on-trial-the-consensus-is-more-con-and-nonsense-than-science/

Climate Bullies Gone Wild; Caught on Tape and Print

https://co2islife.wordpress.com/2017/01/22/climate-bullies-gone-wild-caught-on-tape-and-print/

Climate "Science" on Trial; The Smoking Gun Files

https://co2islife.wordpress.com/2017/01/17/climate-science-on-trial-the-smoking-gun-files/

Climate "Science" on Trial; Data Chiropractioners "Adjust" Data

https://co2islife.wordpress.com/2017/01/29/climate-science-on-trial-data-chiropractioners-manipulate-data/

Allan M.R. MacRae February 5, 2017 at 3:20 am Actually, it is EXACTLY as we thought. Source: Tony Heller https://realclimatescience.com/all-temperature-adjustments-monotonically-increase/ https://stevengoddard.files.wordpress.com/2015/01/giss-1981-2002-2014-global.gif

Allan M.R. MacRae February 5, 2017 at 4:50 am Comment: I would be interested in Dr. Bates views regarding what drives what.

Excerpts below are from Veizer (GAC 2005). Dr. Bates also works on the global water and energy cycle. As I proved in January 2008 (MacRae, icecap.us), dCO2/dt varies with temperature and its integral atmospheric CO2 lags global temperature by about 9 months in the modern data record. Quelle surprise! Best, Allan

https://judithcurry.com/2017/02/04/climate-scientists-versus-climate-data/

"Dr. Bates' technical expertise lies in atmospheric sciences, and his interests include satellite observations of the global water and energy cycle, air-sea interactions, and climate variability. His most highly cited papers are in observational studies of long term variability and trends in atmospheric water vapor and clouds."

https://wattsupwiththat.com/2012/05/06/the-bern-model-puzzle/#comment-982270

Excerpts from Veizer (GAC 2005):

"Pages 14-15: The postulated causation sequence is therefore: brighter sun => enhanced thermal flux + solar wind => muted CRF => less low-level clouds => lower albedo => warmer climate.

Pages 21-22: The hydrologic cycle, in turn, provides us with our climate, including its temperature component. On land, sunlight, temperature, and concomitant availability of water are the dominant controls of biological activity and thus of the rate of photosynthesis and respiration. In the oceans, the rise in temperature results in release of CO2 into air. These two processes together increase the flux of CO2 into the atmosphere. If only short time scales are considered, such a sequence of events would be essentially opposite to that of the IPCC scenario, which drives the models from the bottom up, by assuming that CO2 is the principal climate driver and that variations in celestial input are of subordinate or negligible impact....

... The atmosphere today contains ~ 730 PgC (1 PgC = 1015 g of carbon) as CO2 (Fig. 19). Gross primary productivity (GPP) on land, and the complementary respiration flux of opposite sign, each account annually for ~ 120 Pg. The air/sea exchange flux, in part biologically mediated, accounts for an additional ~90 Pg per year. Biological processes are therefore clearly the most important controls of atmospheric CO2 levels, with an equivalent of the entire atmospheric CO2 budget absorbed and released by the biosphere every few years. The terrestrial biosphere thus

appears to have been the dominant interactive reservoir, at least on the annual to decadal time scales, with oceans likely taking over on centennial to millennial time scales."

lapogus <u>February 5, 2017 at 5:33 am</u> Let's not forget Steig's paper which created a fake warming trend across Antarctica, and Nature's brazen promotion of this prior to Copenhagen in 2009.<u>http://www.bishop-hill.net/blog/2011/2/8/steigs-method-massacred.html</u>

Steven Mosher <u>February 4, 2017 at 6:02 pm</u> "The report claimed that the 'pause' or 'slowdown' in global warming in the period since 1998 – revealed by UN scientists in 2013 – never existed,"

Problem. They never argued this.

2nd problem. Their treatment of the SST has been independently verified using Satelllite data, Argo Data, and Buoy Data.

3rd problem.. GHCN is a red herring in all of this as is Pha

charles nelson February 4, 2017 at 6:46 pm Jan 4th 2017. Scientific American

- Various studies have debunked the idea of a pause, or hiatus in global warming the contention that global surface temperatures have stopped....
- **joelobryan** <u>February 4, 2017 at 7:14 pm</u> Mosh writes, "Problem. They never argued this." Huh? Have you been drinking too much this Saturday night Mosh?

Finally, we consider the impact of larger warming rates in high latitudes (24) on the overall global trend. To estimate the magnitude of the additional warming, we applied large-area interpolation over the poles using the limited observational data available. Results (Fig. 1) indicate that, indeed, additional global warming of a few hundredths of a degree Celsius per decade over the 21st century is evident, providing further evidence against the notion of a recent warming "hiatus." See supplemental materials for details.

In summary, newly corrected and updated global surface temperature data from NOAA's NCEI do not support the notion of a global warming "hiatus." As shown in Fig. 1, there is no discernable (statistical or otherwise) decrease in the rate of warming between the second half of the 20th century and the first 15 years of the 21st century. Our new analysis now shows the trend over the period 1950-1999, a time widely agreed as having significant anthropogenic global warming (1), is 0.113°C dec⁻¹, which is virtually indistinguishable with the trend over the period 2000-2014 (0.116°C dec⁻¹). Even starting a trend calculation with 1998, the extremely warm El Niño year that is often used as the beginning of the "hiatus", our global temperature trend (1998-2014) is 0.106° C dec⁻¹ – and we know that is an underestimate due to incomplete coverage over the Arctic. Indeed, based on our new analysis, the IPCC's (1) statement of two years ago – that the global surface temperature "has shown a much smaller increasing linear trend over the past 15 years than over the past 30 to 60 years" – is no longer valid.

joelobryan <u>February 4, 2017 at 9:34 pm</u> Nick, Uh your desparation in trying to defend the undefensible Karl PauseBuster paper is showing."... it is virtually impossible to replicate the results in K15."

Which version of the GHCN-M software K15 used is further confounded by the fact that GHCNMv3.3.0, the upgrade from version 3.2.2, only went through an ORR in April 2015 (i.e., after the K15 paper was submitted and revised). The GHCN-Mv3.3.0 ORR presentation demonstrated that the GHCN-M version changes between V3.2.2 and V3.3.0 had impacts on rankings of warmest years and trends. The data flow that was operational in June 2015 is shown in figure 3.

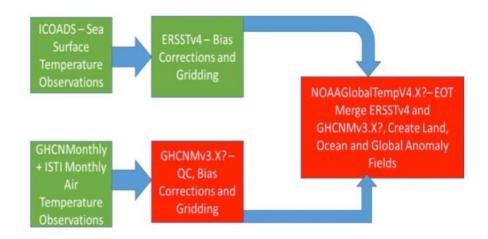


Figure 3. Data flow for surface temperature products described in K15 Science paper. Green indicates operational datasets having passed ORR and archived at time of publication. Red indicates experimental datasets never subject to ORR and never archived.

It is clear that the actual nearly-operational release of GHCN-Mv4 beta is significantly different from the version GHCNM3.X used in K15. Since the version GHCNM3.X never went through any ORR, the resulting dataset was also never archived, and it is virtually impossible to replicate the result in K15.

At the time of the publication of the K15, the final step in processing the NOAAGlobalTempV4 had been approved through an ORR, but not in the K15 configuration. It is significant that the current operational version of NOAAGlobalTempV4 uses GHCN-M V3.3.0 and does not include the ISTI dataset used in the *Science* paper. The K15 global merged dataset is also not archived nor is it available in machine-readable form. This is why the two boxes in figure 3 are colored red.

The lack of archival of the GHCN-M V3.X and the global merged product is also in violation of *Science* policy on making data available [link]. This policy states: *"Climate data. Data should be archived in the NOAA climate repository or other public databases"*. Did Karl et al. disclose to *Science Magazine* that they would not be following the NOAA archive policy, would not archive the data, and would only provide access to a non-machine readable version only on an FTP server?

davidmhoffer February 4, 2017 at 8:04 pm

'I learned that the computer used to process the software had suffered a complete failure.' The reason for the failure is unknown, but it means the Pausebuster paper can never be replicated or verified by other scientists.

UTTER. AND. COMPLETE. HORSE. SH*T!!!!

Unless this work was done COMPLETELY on a desk top computer and ALL the code and ALL the data were on it, and it ALONE, this claim of a complete failure simply beggars belief.

First of all, it is doubtful that such code could even run on a desk top computer, but let's suppose for a moment that it could. The paper is "Karl et al"! He had co-authors! For ALL the code and ALL the data to be on a single desk top computer, THEY WOULD HAVE HAD TO TAKE TURNS USING IT WHICH NOBODY IN THE MODERN WORLD DOES.

Further, code of this type just doesn't run on a desk top computer unless you don't mind each run taking a few YEARS. Which is why it is doubtful it was on a desk top. More likely it was on a high performance compute cluster which is a whole bunch of servers with shared storage. But modern shared storage protects data by creating two to three virtual copies of the data across many disk drives. The failure of one, and in most cases even two drives simultaneously triggers the rebuild of the failed data on "hot spare" drives. The chances of losing ALL the data and ALL the code to a "failure" are infinitesimally small. You could PULVERIZE every server in the cluster, and you would STILL have ALL the code and ALL the data and the only way you could not run it again is if the servers in the cluster were one of a kind CPU's never before and never again manufactured by anybody (the cost of which would be INSANE, even by the standards of "feed us the money by the boat load" of climate science and no semi-conductor company on earth would screw themselves over trying to do such a thing).

If ALL the data and ALL the code are gone and there is no way to recreated the computer system on which it was stored and run, there are, in my mind, three likely possibilities:

1. A lot of people are outright lying about this.

2. There was a deliberate act of sabotage.

3. There have been multiple failures of hardware that make winning the lottery a hundred times in succession look like a good bet.

Andrew Russell February 4, 2017 at 8:06 pm

Chapter 8 Rewrite (1996) The Hockey Stick Yamal Upside-down Tijlander Hide the Decline "Lonnie Thompson, serial non-archiver" (per Steve McIntyre) Gleickgate 28Gate Glaciergate Climategate PausebusterGate?

Fraud after fraud after fraud by the catastrophe-mongers.

4caster February 4, 2017 at 10:16 pm

As a former NOAA employee who filed two whistleblower complaints, I feel compelled to offer my humble opinions:

1. Dr. Bates should have spoken up long before now, as it was his duty to save the nation from misspending untold taxpayer resources based on flawed results. (Perhaps he was too busy with Downton Abbey. JK.) Now that he's retired, there is not much danger to him, is there, except maybe from the smear artists employed by the CAGW cabal. Dr. Bates is not really a true whistleblower, as he is no longer associated with the organization. Try blowing the whistle while still inside, and see what happens – you will be called names to your face; you will be vilified; your reputation will be ruined; you will never be promoted; the administration will try to fire you, or at least demote you; you will not receive awards you deserve, or, if you

do receive an award, it will be minimal and not commensurate with what should have been disbursed, and will only be issued to cover any appearance of bias.

2. Most if not all government employees are, or quickly learn to become, yes-men and yes-women for the sake of preserving their promotion potential, and to receive or continue receiving positive performance appraisals and the potential for awards and bonuses, deserved or undeserved. This is group-think at its worst. Fortunately for safe air travel, airlines are finally encouraging subordinate pilots and crew members to vocalize any problems they think are happening in order to prevent disasters. This kind of atmosphere needs to be instilled in our government agencies, instead of demanding, even tacitly, blind obedience.

3. As NOAA became more administratively bent toward the ideas of CAGW, I personally was pressured by my former supervisor (now comfortably retired himself) to destroy a binder that I produced for the office staff's edification about studies concerning human-caused global warming versus natural climate cycles. There was really no convincing most of the staff members that the climate changes naturally anyway. They couldn't admit natural climate variations in any case, as they blew with the prevailing wind from Vichy, er, I mean Silver Spring.

4. Whistleblowers are not protected by the watchdogs specifically designed to do just that. Inspectors General should also be looking at the efficacy of entities such as the Merit Systems Protection Board, which from my observation has been put in place to cover up the myriad misdeeds of the agencies and their parent Departments, not to protect employees. In many cases, the MSPB is part of the problem, not any kind of solution or help to beleaguered employees.

5. All NOAA managers and administrators need to pass mental health testing, especially regarding Narcissistic Personality Disorder. Too many narcissists at high levels have, and are, selecting like people for their subordinates. Cronyism is rampant within this agency, and has contributed to the lowered level of effort, results, morale, and overall operational status.

6. NOAA has been corrupt for decades. It worsened early in my career, with the advent of our Politically Correct culture mirroring society overall, and the installation of non-scientist administrators. It is vitally important that this event described by Dr. Bates be widely disseminated to the appropriate watchdogs, such as Senate and Congressional committees as well as the White House, so they can move with vigor to investigate and correct these misdeeds, for misdeeds they are. The administration and hierarchy of both NOAA and NASA over the past two decades need to be thoroughly investigated with a fine-toothed comb to reveal systemic corruption and malfeasance, not only in the climate-related arena, but in all phases of their activities, especially including personnel (mis)management.