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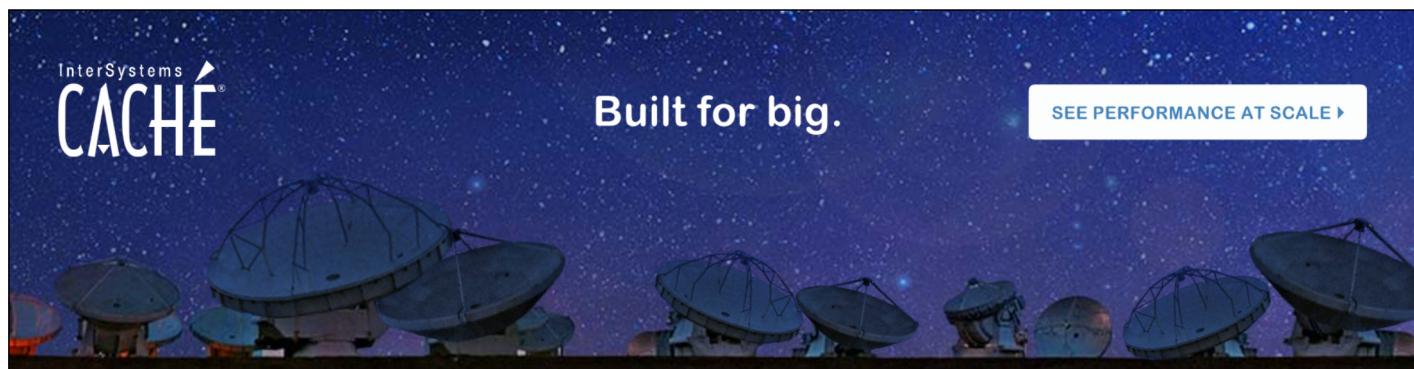
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[Record-shattering recording instruments](#) (Score:0, Troll)

by [turkeydance \(1266624 \)](#) [Alter Relationship](#)

and record-shattering recorders.

[Re:](#) (Score:0, Troll)

by [fche \(36607 \)](#) [Alter Relationship](#)

and record-shattering historical data rerererereadjustments

[Re:](#) (Score:5, Insightful)

by Anonymous Coward

This has been discussed here so often that even I have heard about it.

You have 100 100-year-old monitoring stations. You have new ones that were started more recently. To examine 100 year trends, do you

[a] ignore the more recent stations and do not correct for anything, even though this will bias your results towards more warming due to urbanization

[b] ignore the more recent stations and adjust the historical temperatures based on ???

[c] use all available data and try to correct for as many effects as you c

[Re:](#) (Score:2, Insightful)

by [Bartles \(1198017 \)](#) [Foe of a Friend](#)

You stop paying attention to temperature recording stations, which have never been a constant, and you rely on multimillion dollar satellites that we put into orbit for a specific reason.

>

[Re:record-shattering recording instruments](#) (Score:5, Insightful)

by [Layzej \(1976930 \)](#) [Fan](#) on 2016-01-20 21:08 (#51341279)

temperature recording stations, which have never been a constant, and you rely on multimillion dollar satellites

The satellites are also not constant. You have to adjust for orbital decay, diurnal cycle, remove stratospheric signal, accommodate for sensor degradation, and you need to stitch data from multiple satellites. On top of that, satellites don't measure temperature, they measure radiance which needs to be reinterpreted as temperature using a model. Yes, they are very expensive, but that doesn't really mean that they are infallible or somehow a gold standard. Even Carl Mears who develops the RSS satellite data set says he trusts surface temperature measurements much more than the satellite models. Watch the

video in this link: <http://climatecrocks.com/2016/...>

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[Re:record-shattering recording instruments \(Score:0\)](#)

by Anonymous Coward on 2016-01-20 22:04 ([#51341519](#))

Yes, compensating for emissivity is a bitch.

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[Re:record-shattering recording instruments \(Score:3, Insightful\)](#)

by [Bartles \(1198017 \)](#) [Foe of a Friend](#) on 2016-01-20 22:51 ([#51341709](#))

They aren't constant, but the factors are well known and predictable. They are also under complete control and observation of their operators, unlike the thousands of surface stations located world wide.

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[Re:record-shattering recording instruments \(Score:3\)](#)

by [Layzej \(1976930 \)](#) [Fan](#) on 2016-01-20 22:57 ([#51341747](#))

Then why do the two satellite records not agree with each other let alone with radiosonde measurements? The divergence is quite wide on these records.

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[Re:record-shattering recording instruments \(Score:2\)](#)

by [phantomfive \(622387 \)](#) [Foe of a Friend](#) on 2016-01-20 23:29 ([#51341843](#)) [Journal](#)

Then why do the two satellite records not agree with each other let alone with radiosonde measurements? The divergence is quite wide on these records. IF you have three different thermometers, and they give three different numbers, then you have set a minimum bound on your margin of error. The margin of error could still be larger.

What's the saying?

"If you have a clock, then you know what time it is.

If you have two clocks, then you're never sure."

--

[Really want. No clue how I'd use it](#)

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[Re:record-shattering recording instruments \(Score:3\)](#)

by [AlterEager \(1803124 \)](#) [Alter Relationship](#) on 2016-01-21 7:03 ([#51342813](#))

Then why do the two satellite records not agree with each other let alone with radiosonde measurements? The divergence is quite wide on these records.

IF you have three different thermometers

But the thing is we have one thermometers and two temperatures. The UAH and RSS teams are using (mostly) the same satellites and getting different readings.

The problem is that the adjustments made to the satellite data are vastly larger than the ones applied to the surface data, and to a much greater extent decided on by "judgement". UAH has gone through six major revisions, producing wildly different temperatures.

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[Re:record-shattering recording instruments \(Score:2\)](#)

by [phantomfive \(622387 \)](#) [Foe of a Friend](#) on 2016-01-21 11:17 ([#51344161](#)) [Journal](#)

The problem is that the adjustments made to the satellite data are vastly larger than the ones applied to the surface data, and to a much greater extent decided on by "judgement".

The adjustments in the terrestrial record depend a lot on judgement, man.

--

[Really want. No clue how I'd use it](#)

[Parent](#)[Share](#)[twitter](#) [facebook](#) [linkedin](#) **[Re:record-shattering recording instruments \(Score:1\)](#)**by [acrimonious howard \(4395607 \)](#) [Alter Relationship](#) on 2016-01-24 11:43 ([#51361367](#))

If you have 2 clocks, one says you've got 5 minutes before a meeting, another says 4, who cares if any of them are off, just get your butt to the meeting!

With climate change, we have thousands of clocks, and almost all of them are saying we better do something.

[Parent](#)[Share](#)[twitter](#) [facebook](#) [linkedin](#) **[Re:record-shattering recording instruments \(Score:3\)](#)**by [AlterEager \(1803124 \)](#) [Alter Relationship](#) on 2016-01-21 6:58 ([#51342803](#))

They aren't constant, but the factors are well known and predictable. They are also under complete control and observation of their operators, unlike the thousands of surface stations located world wide.

Well, no. UAH has gone through 6 major modifications since it started because it turned out that the factors **were not** well known and **are not** predictable, why has the satellite data started to diverge from the radiosonde data? Is it a problem with the satellites? Change in atmospheric response due to humidity changes perhaps? Who knows?

The satellites are also not "under complete control and observation of their operators". They are in decaying orbits with instruments that are known to drift over time.

[Parent](#)[Share](#)[twitter](#) [facebook](#) [linkedin](#) **[Re:record-shattering recording instruments \(Score:2\)](#)**by [angel'o'sphere \(80593 \)](#) [Alter Relationship](#) on 2016-01-21 18:11 ([#51347271](#)) [Journal](#)

The satellites don't measure temperature. Facepalm. How should they be able to do that?

The measure certain stuff using other satellites radiation/emissions etc.

From that they 'conclude' what the temperature might be.

Different satellites use different data sources and different math to conclude temperatures from the data they measure. As measurings like that are rather new, the math, or how to correctly interpret the raw data, is not settled. Hence they give different temperature readings.

This: *They are in decaying orbits with instruments that are known to drift over time.* is just bollocks. How exactly is a clock that measures how a satellite radio signal is slowed down through the atmosphere depending on moisture and temperature 'degrading' ... exactly ... how is that supposed to work? Ha?

The GPS satellites don't 'degrade' but the satellites measuring their signals, do?

Made in China Syndrom?

Idiot!

[Parent](#)[Share](#)[twitter](#) [facebook](#) [linkedin](#) **[Re:record-shattering recording instruments \(Score:2\)](#)**by [AlterEager \(1803124 \)](#) [Alter Relationship](#) on 2016-01-22 4:35 ([#51349103](#))

The satellites don't measure temperature. Facepalm. How should they be able to do that?

The measure certain stuff using other satellites radiation/emissions etc.

From that they 'conclude' what the temperature might be.

You don't seem to know what satellites we're talking about here. The UAH and RSS datasets are based on the MSU (microwave sounding unit) and AMSU (advanced ...) instruments on NOAA satellites, they don't "measure certain stuff using other satellites"

This: *They are in decaying orbits with instruments that are known to drift over time.* is just bollocks. How exactly is a clock that measures how a satellite radio signal is slowed down through the atmosphere depending on moisture and temperature 'degrading' ... exactly ... how is that supposed to work? Ha?

The GPS satellites don't 'degrade' but the satellites measuring their signals, do?

Made in China Syndrom?

Idiot!

We're not talking about GPS satellites here, the NOAA satellites don't have "a clock that measures how a satellite radio signal is slowed down through the atmosphere".

Why do you bother commenting if you don't know what the fuck you're talking about?

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by [angel'o'sphere \(80593 \)](#) [Alter Relationship](#) on 2016-01-22 14:20 ([#51352503](#)) [Journal](#)

Erm,I know what I'm talking about.

The satellites you mention don't use GPS, and? What is your point?

They don't measure temperature. Period. They measure what ever their instruments are made for, and from that they **extrapolate** temperature.

No grasp the rest I wrote: neither are those instruments nor measurements degrading nor are they perfect. Every few years we realize that old measurements where **extrapolated wrongly** because we now have a better understanding. Then obviously we have to *adjust* the old 'temperatures' and future algorithms to calculate the temperatures from the raw data.

Different satellites use different technologies and hence different algorithms and hence diverge in the temperatures they **extrapolate** from the data they use

Got it now?

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[Re:record-shattering recording instruments \(Score:2\)](#)

by [AlterEager \(1803124 \)](#) [Alter Relationship](#) on 2016-01-25 4:52 ([#51364347](#))

Erm,I know what I'm talking about.

Maybe, but when you spout nonsense like:

The measure certain stuff using other satellites radiation/emissions etc.

Why are we supposed to believe you. The NOAA MSA and AMSU instruments measure microwave emissions from oxygen, they do not use "other satellites radiation/emissions etc".

Then you continue with:

How exactly is a clock that measures how a satellite radio signal is slowed down through the atmosphere depending on moisture and temperature 'degrading'

The NOAA satellites don't have "a clock that measures how a satellite radio signal is slowed down through the atmosphere depending on moisture and temperature"

Then **you** bring up GPS:

The GPS satellites don't 'degrade' but the satellites measuring their signals, do?

Then you make the unsupported assertion:

neither are those instruments nor measurements degrading nor are they perfect.

We know the instruments are not perfect, look at the problems with the "hot target" for example.

As for not degrading, you might like to check out the NOAA [status page](#).

For example:

12/16/2008 00:00:00 MetOp-2 AMSU-A1 Channel 7 degradation began violating specifications beginning 12/16.2008.

Conclusion: You don't know what the fuck you're talking about.

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[Re:record-shattering recording instruments \(Score:2\)](#)

by [angel'o'sphere \(80593 \)](#) [Alter Relationship](#) on 2016-01-25 14:10 ([#51367843](#)) [Journal](#)

I did not talk about NOAA satellites but satellites in general.

Why you believe that sensors are degrading is beyond me. If sensors 'are' degrading, you easily fix that by post-processing their signals.

Regarding GPS, most european atmosphere measuring satellites use the signals of GPS satellites. You probably are not aware of that, no idea why you always bring the topic back on NOAA, when my argument was:

the satellites don't measure temperature! Regardless what they measure, they measure something that has to be interpreted and converted into temperature. Hence the 'quality' of the temperature we get out of it, is based on our math and understanding. Neither on sensors nor sensor degrading nor any AWG hoax data fixing.

So if you have several different types of measurement: everyone but you is expecting that their 'calculated' temperature is differing from each other. It would be a miracle if they would not.

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[Re:record-shattering recording instruments \(Score:1, Troll\)](#)

by [Jane Q. Public \(1010737 \)](#) [Friend of a Friend](#) [Foe of a Friend](#) on 2016-01-20 22:53 ([#51341721](#))

I am so tired of this "but they don't measure temperature, they measure radiance" crap.

Of course they measure radiance. But NO instrument "directly" measures temperature. All of them measure some EFFECT that is the result of temperature. Even mercury or alcohol thermometers.

And they all use models, to varying extent. In the case of physical thermometers, that "model" is essentially built into its physical construction. In electronic thermometers, the "model" may be part of its physical construction, or based on a reference, or both. Or might be in firmware. Or it may be in

software located somewhere else entirely. Even the surface temperature thermometer record has models to adjust for different factors, including changes of location.

The point is: what you say is pretty much true as far as it goes, but those are **NOT** strong arguments against the satellite record. Not only are they true of pretty much every kind of instrument, including thermometers, but:

- * Radiosonde data has been shown to strongly correlate with UAH and RSS satellite data.
- * Radiosonde (thermometer) data was actually used to help calibrate the satellites.
- * Satellite instruments (MSU) also have the highest-quality internal references.
- * Satellites have by far the best coverage of any instruments we have.

Now, I am quite sure you can find references from The Usual Suspects which disagree with some of these points, but I can dig up references too. And that would just make it pretty much a matter of he-said, she-said, and won't get us anywhere, so I won't likely bother to respond if you do. I've seen them all.

Not many years ago (just before the AGW hysteria began, in fact), the satellites were widely hailed as "the best instruments we have". I am aware that some people (again, The Usual Suspects) disagree. But anyone who ignores the satellite record is doing something wrong.

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[Re:record-shattering recording instruments \(Score:-1\)](#)

by Anonymous Coward on 2016-01-20 22:59 ([#51341755](#))

This is why we should question women scientists a bit more than the men.

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[Re:record-shattering recording instruments \(Score:3, Informative\)](#)

by [Layzej \(1976930 \) Fan](#) on 2016-01-20 23:01 ([#51341763](#))

Well, I'm not sure how much time I should spend discussing this with someone who rejects radiative physics, believes that the twin towers were an inside job, and thinks that Obama faked his birth certificate, but... Here is radiosonde measurements minus the satellite data. Note the rapid divergence around 2000? Suddenly satellite data took a nose dive relative to the radiosonde measurements. What happened there? <https://tamino.files.wordpress...>

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[Re:record-shattering recording instruments \(Score:2\)](#)

by [Bartles \(1198017 \) Foe of a Friend](#) on 2016-01-20 23:24 ([#51341833](#))

My guess is they added a new correction scheme to the satellite data around the year 2000.

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[Re:record-shattering recording instruments \(Score:3\)](#)

by [Layzej \(1976930 \) Fan](#) on 2016-01-20 23:30 ([#51341849](#))

Wait... I thought they were a constant?

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[Re:record-shattering recording instruments \(Score:2\)](#)

by [Bartles \(1198017 \) Foe of a Friend](#) on 2016-01-21 0:01 ([#51341931](#))

Actually that should read RATPAC, not satellite. Anyways, the data is constant, the method of adjustment is always in flux.

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Re:record-shattering recording instruments (Score:4)by [Layzej \(1976930 \) Fan](#) on 2016-01-21 0:58 ([#51342055](#))

You are right that method of adjustment on satellite data is in flux. The difference in trend between each version is quite large. How do you know that the current adjustments are the right one if they are always in flux? And which of the two data sets should we use? The difference between the adjustments applied by the two teams are quite large. UAH shows MORE warming than land based measurements while RSS shows less... <http://woodfortrees.org/plot/u...>

[Parent](#)[Share](#)[twitter](#) [facebook](#) [linkedin](#) **Re:record-shattering recording instruments (Score:3, Informative)**by [Jane Q. Public \(1010737 \) Friend of a FriendFoe of a Friend](#) on 2016-01-21 1:42 ([#51342171](#))

This guy doesn't seem to have an honest bone in his body.

Unadjusted UAH might... but you already said adjustments are necessary. If so, why are you showing data before adjustments? It's meaningless for proving your point. But it's great for propaganda. Further -- and this is funny -- your had to include UAH "land only" when all the others are "global"... why? My guess is precisely to mislead, because that looks the highest.

But you're not fooling people as much as you think you are.

And why not use the adjustments calculated by the team whose job it is to do so? Especially when RATPAC and other similar models very clearly exaggerate the warming by not accounting for instrumental changes (see the link in my other reply)... so why not use the clearly superior set of adjustments (Christy, Spencer et al.) which **does** account for discontinuities caused by the instrumentation changes?

So let's just knock off the BS, and show them [what UAH actually shows for current temperatures](#).

No hottest year. Not even close. And remember it's only as high as it was, because of El Nino... weather, not climate.

But as weather effects go, it's a big one. And when this big El Nino goes away, we're in for La Nina. Typically 2-3 years of cooler temperatures.

I suspect Layzej, like Tamino and pals, are trying to push the "OMG hottest year ever" message now, while they have a chance, and before it cools off.

[Parent](#)[Share](#)[twitter](#) [facebook](#) [linkedin](#) **Re:record-shattering recording instruments (Score:3)**by [Layzej \(1976930 \) Fan](#) on 2016-01-21 2:04 ([#51342235](#))

What are you talking about? What is 'unadjusted UAH'? You're link is to a beta version of UAH that has different adjustments. Which is right? The currently published one or the beta version? They are both quite different. Are you sure that satellite is the gold standard? Are they really 'constant' and unchanging?

[Parent](#)[Share](#)[twitter](#) [facebook](#) [linkedin](#) **Re:record-shattering recording instruments (Score:2)**by [Jane Q. Public \(1010737 \) Friend of a FriendFoe of a Friend](#) on 2016-01-21 3:22 ([#51342415](#))

What are you talking about?

Well, then, be specific. What **specific** data were you showing in that Wood for Trees graph? And why did you include UAH land only, when the others were all global? Are you claiming that was an accident? Or were you trying to make an impression?

My point was that you weren't showing the finished results of UAH, but some intermediate data before further processing. And I really don't think it takes a genius to figure that out from what I wrote.

You're link is to a beta version of UAH that has different adjustments.

It's the version they're using. It's "beta" only in the sense that they called out for constructive comments. There is a link to a discussion of it on the same page, if you're interested.

Which is right? The currently published one or the beta version?

Presumably the newer version. There is reason to think so.

Are you sure that satellite is the gold standard?

I never claimed that it was. But there are lots of very good reasons to believe they're better than current surface temperature datasets.

Are they really 'constant' and unchanging?

Why do you ask? I didn't say or even imply that they were. My comments were about your later statements:

And which of the two data sets should we use? The difference between the adjustments applied by the two teams are quite large. UAH shows MORE warming than land based measurements while RSS shows less... <http://woodfortrees.org/plot/u...> [woodfortrees.org]

One of my points was that your graph was messed up, because you used UAH land-only, vs RSS and UAH global (including sea). Your graph was **misleading**, intentionally or otherwise. I questioned your honestly not because of the uncalled-for attempts at personal slams, but because based on my past experience, my guess was (is) intentionally.

It should look [more like this](#).

The bit about "unadjusted" was intended to mean that these curves are of instrumental data, not model outputs. Before being run through much processing. So "RSS MSU lower trop. global mean" is relatively unaltered MSU data.

We get your point that some are adjusted more. That has little to do with whether particular adjustments are proper or improper.

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[Re:record-shattering recording instruments](#) (Score:1)

by Anonymous Coward on 2016-01-21 4:25 ([#51342531](#))

There ISN'T *ANY* "unadjusted" UAH. UAH *is a method of adjusting the radiance figures to temperature*. And we're on version 6.0 (the last one was 5.6, so this isn't the 6th change).

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[Re:record-shattering recording instruments](#) (Score:0)

by Anonymous Coward on 2016-01-21 7:44 ([#51342935](#))

And remember it's only as high as it was, because of El Nino...

Can I take it then that you have never cherry picked 1998 to show that there is a 'pause' in surface temperatures?

Also, if it's just El Nino, can you explain why El Ninos are getting hotter (as indeed are La Ninas and as are neutral years).

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[Re:record-shattering recording instruments](#) (Score:2)

by [AlterEager \(1803124 \)](#) [Alter Relationship](#) on 2016-01-21 8:47 ([#51343165](#))

The bit about "unadjusted" was intended to mean that these curves are of instrumental data, not model outputs. Before being run through much processing. So "RSS MSU lower trop. global mean" is relatively unaltered MSU data.

Nonsense. All RSS output is model output. The instrumental data is a bunch of numbers for microwave emission at various frequencies. There is no temperature output from the instruments.

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[Re:record-shattering recording instruments](#) (Score:2)

by [I'm New Around Here \(1154723 \)](#) [Foe of a Friend](#) on 2016-01-21 8:55 ([#51343193](#))

No one ever cherry picked 1998. The comments I have always seen use 1997 as the start of the pause, with the El Nino year of 1998 the anomaly that it was.

Such as this graph I just pulled from some random site.

<https://bobtisdale.files.wordpress...>

No one ever said we are not warming because "1998!!!!!!".

--

We're talking about bullets, you're showing us tweets. Try to keep up... -- RobotRunAmok

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[Re:record-shattering recording instruments](#) (Score:2)

by [dywolf \(2673597 \)](#) [Friend of a Friend](#) on 2016-01-21 9:37 ([#51343411](#))

and you continue to push misinformation from spencer.

--

There is no ignorant like libertarian with an internet connection ignorant.

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Re:record-shattering recording instruments (Score:2)by [tbannist \(230135 \) Friend of a Friend](#) on 2016-01-21 9:40 (#51343423)

No one ever cherry picked 1998. The comments I have always seen use 1997 as the start of the pause, with the El Nino year of 1998 the anomaly that it was.

Ha ha ha ha! Oh lord, tell me another one. 1998 was used all the time until enough people understood that it was an exceptionally warm year and that anyone using it as the start for trend was obvious lying. So instead, the fraudsters of the denial clique moved to using 1997 which was also unusually warm because the El Nino actually peaks in 1997.

Such as this graph I just pulled from some random site.

Ha. You just happened to pull a graph from a random site, and it just happens to be a guest blogger for What's Up with That? Maybe not so random after all? Also that graph is hilarious. There's no global warming because April 2013 is no warming than June 1997. What's next will you declare that because January 2016 is colder than August 1997 that global warming doesn't exist?

No one ever said we are not warming because "1998!!!!!!".

On the contrary, it was literally the most popular argument against global warming for years. In recent years it's fallen to 9th most popular argument according to [Skeptical Science](#), because so many people can instantly recognize the argument as bullshit, but that's still pretty far from "nobody".

--

Fanatically anti-fanatical

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Re:record-shattering recording instruments (Score:2)by [I'm New Around Here \(1154723 \) Foe of a Friend](#) on 2016-01-21 10:47 (#51343897)

No one ever cherry picked 1998. The comments I have always seen use 1997 as the start of the pause, with the El Nino year of 1998 the anomaly that it was.

Ha ha ha ha! Oh lord, tell me another one. 1998 was used all the time until enough people understood that it was an exceptionally warm year and that anyone using it as the start for trend was obvious lying. So instead, the fraudsters of the denial clique moved to using 1997 which was also unusually warm because the El Nino actually peaks in 1997.

So are you saying that the claim by the AC about people cherry picking 1998 today is false because no one cherry picks 1998 anymore?

Again, I always saw people start at 1997. Maybe I missed ones on sites you posted one. If so, I stand corrected. People who were quickly shown to be obviously lying said "1998!!!!!!", and everyone else with a valid argument used 1997.

Such as this graph I just pulled from some random site.

Ha. You just happened to pull a graph from a random site, and it just happens to be a guest blogger for What's Up with That? Maybe not so random after all?

I googled for "temperature graph 1997", clicked the link for images, and it was the first graph on the results page. It had the range I was looking for, and a couple notes on it, so I used it. Whatever conspiracy theory you want to make of that is fine by me.

Also that graph is hilarious. There's no global warming because April 2013 is no warming than June 1997. What's next will you declare that because January 2016 is colder than August 1997 that global warming doesn't exist?

I am not the one that made the graph. I agree it is a stupid comparison, but you will have to ask the site why they chose to use temps from different months for that point. I used the graph because it started in 1997, not in 1998 as the AC claimed was the cherry picked starting point for all anti-agw arguments.

You don't even mention that the graph *does show* a warming trend. Why ignore that nugget? You must have some diabolical reason for ignoring it.

No one ever said we are not warming because "1998!!!!!!".

On the contrary, it was literally the most popular argument against global warming for years. In recent years it's fallen to 9th most popular argument according to [Skeptical Science](#), because so many people can instantly recognize the argument as bullshit, but that's still pretty far from "nobody".

The article on that site is 8 years old. Notice the first comment at the bottom is from 2007. So, eight years ago one person was shown to use 1998 as the starting point.

Except, wait a second. The claim being disputed is specifically warming for the years 1998 to 2005. It seems there was some significance for those dates. Since 1998 was a strong El Nino year, I wonder if 2005 was another. Looking around the net, <https://en.wikipedia.org/wiki/...>, it seems almost every year from 2002 to 2010 was either going into or coming out of El Nino conditions. Let's look further.

Here's a link, <http://www.nasa.gov/vision/ear...>, that says those two years were tied for the warmest up until then. So, hey, a valid reason to compare temperate in 2005 with 1998. The conclusions of the comparison may be wrong, or the refutations of those conclusions may be faulty. But it turns out it isn't really a case of "1998!!!!!!!" after all.

--

We're talking about bullets, you're showing us tweets. Try to keep up... -- RobotRunAmok

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Re:record-shattering recording instruments (Score:2)by [tbannist \(230135 \) Friend of a Friend](#) on 2016-01-22 10:43 (#51350545)

Again, I always saw people start at 1997. Maybe I missed ones on sites you posted one. If so, I stand corrected. People who were quickly shown to be obviously lying said "1998!!!!!!", and everyone else with a valid argument used 1997.

I'm afraid that's not the case, the people using 1997 are the same charlatans who used to use 1998. Here's the key thing thing, they're choosing the start point so they can get the trend they want. It's literally the opposite of science, they have conclusions and they just trying things until they find something that looks like it supports their conclusion.

I googled for "temperature graph 1997", clicked the link for images, and it was the first graph on the results page. It had the range I was looking for, and a couple notes on it, so I used it. Whatever conspiracy theory you want to make of that is fine by me.

That should be informative for you, then. You searched for "temperature graph 1997" and the first person you found is a raging climate change denier. I am not the one that made the graph. I agree it is a stupid comparison, but you will have to ask the site why they chose to use temps from different months for that point.

I don't actually need to do that, I already know why they did it, so they could claim that there's no warming trend. The fact that the author is transparently incompetent just makes his bumbling more amusing.

I used the graph because it started in 1997, not in 1998 as the AC claimed was the cherry picked starting point for all anti-agw arguments.

But he didn't say that, he asked if Jane Q. Public had ever used 1998 in an argument to claim that there had been no warming. I can't be bothered to look for it, but I'm pretty certain she has and the AC has her dead to rights on using a double-standard, when El Nino years are exception when they show things she doesn't want to see and normal when they show what she does want to see.

You don't even mention that the graph *does show* a warming trend. Why ignore that nugget? You must have some diabolical reason for ignoring it.

I didn't mention that the start and end temperatures are also obviously mislabelled as well to claim that there isn't a warming trend despite it being obvious that there is one. There are just so many errors in that graph...

But it turns out it isn't really a case of "1998!!!!!!!!!" after all.

They started a trend line on 1998, 1998 was one of the [strongest El Ninos on record](#), 2004-2005 was one of the weakest. If you start a trend line on an outlier, you will always get a deceptive result, so yes, it is clearly a case of "global warming doesn't exist because of 1998".

--

Fanatically anti-fanatical

Parent

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[Re:record-shattering recording instruments \(Score:2\)](#)

by [david thornley \(598059 \)](#) [Alter Relationship](#) on 2016-01-22 11:03 ([#51350741](#))

That's not true; plenty of people have cherry-picked 1998. Also, if you look at smoothed averages you will see that 1977 was also an anomaly.

--

"You can make a Slashdot signature quote seem authoritative by attributing it to a famous person" - Sun Tzu

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[Re:record-shattering recording instruments \(Score:2\)](#)

by [angel'o'sphere \(80593 \)](#) [Alter Relationship](#) on 2016-01-22 14:04 ([#51352393](#)) [Journal](#)

El Nino and La Nina are not alternating phenomena.

From a few years of a rather normal weather/climate either an El Nino or a La Nina can spawn. In other words when this El Nino ends we might have three years 'normal' weather and another El Nino again, without an in-between La Nina.

Parent

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[Re:record-shattering recording instruments \(Score:0\)](#)

by Anonymous Coward on 2016-01-22 15:21 ([#51352987](#))

... he asked if Jane Q. Public had ever used 1998 in an argument to claim that there had been no warming. I can't be bothered to look for it, but I'm pretty certain she has and the AC has her dead to rights on using a double-standard, when El Nino years are exception when they show things she doesn't want to see and normal when they show what she does want to see.

"SHE?" Well, you're right about **almost** everything there. After Layzej used the **entire UAH satellite record**, Jane [falsely accused](#) him of cherry-picking and (blissfully unaware of the irony) actually suggested cherry-picking 1998.

It's also nearly incomprehensible that Jane employs the double-standard you noted. For years, Jane cherry-picked short timespans starting in 1997/98 and refused to listen to the scientists telling Jane that we should look at long term trends because natural variability (mainly ENSO) adds noise to short term trends.

But now that temperatures are soaring, Jane **suddenly** realizes that natural variability exists and blames rising temperatures solely on El Nino without addressing the fact that [El Ninos are getting warmer](#).

The contrarian double-standard is:

(1) Ignore El Ninos on the left hand side of a temperature graph. In that case, Janeland rules decree that the temperature record is a direct test of AGW and **only** AGW (no natural variability can be considered).

(2) Acknowledge El Nino on the right hand side of a temperature graph. In that case, Janeland rules decree that the temperature record is a direct test of natural variability and **only** natural variability (no AGW can be considered).

Contrast Jane's double standard with the scientific approach taken by NASA, the National Academy of Sciences, [et cetera](#). Scientists don't use a double-standard; in either case scientists **measure** contributions from **both** natural and human causes. A simple uncertainty calculation could show Jane that he's

cherry-picking timespans which are so short that they're dominated by noise. Sadly, years after [I gave Jane](#) open source code for calculating trends and uncertainties, Jane **still** hasn't calculated his very first uncertainty estimate. Hope springs eternal.

But as I said, you're only right about **almost** everything there because you kept referring to Jane as "she" and "her". "[Jane Q. Public](#)" is actually a man named "[Lonny Eachus](#)" who poses as a woman on the internet after he got mad at "[sexist tyrant](#)" women. Please don't feed his delusions or help him [make all women look bad](#) when he acts out the worst sexist stereotypes of women, accuses women of being able to "control your behavior" and "decide whether or not you are a criminal" unless we legalize up-skirt panty shots, etc. We shouldn't help Lonny Eachus pretend that a woman made those sexist claims.

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[Re:record-shattering recording instruments \(Score:0\)](#)

by Anonymous Coward on 2016-01-22 20:50 ([#51354897](#))

It's BS. What THE AUTHOR doesn't understand is that in order for the surface to warm the TROPOSPHERE also has to warm. It's a matter of physics. So if the troposphere is not warming, neither is the surface. You can't have it both ways. It's a bit more complex than that, but that's it in a nutshell.

[\[Lonny Eachus, 2016-01-22\]](#)

Once again, [I told Lonny Eachus](#) that AGW **requires** a cold upper troposphere.

You DO know how the physics of greenhouse warming is supposed to work, don't you? [\[Lonny Eachus, 2015-11-24\]](#)

Yes. Again, I've [repeatedly](#) told you how greenhouse warming **REQUIRES** a cold upper troposphere.

I rather think it's the other way around. Theory **REQUIRES** mid-to-upper trop. warming. [\[Lonny Eachus, 2015-11-24\]](#)

No, I rather think it's the other way around. Again, greenhouse warming **REQUIRES** a cold upper troposphere. Warming from **any** source (solar, volcanic, alien heat ray, etc.) tends to cause an **emergent property**: faster warming in the tropical upper troposphere. Even if this emergent property were missing (which hasn't been proven), that would have nil implications for attribution and roughly nil implications for climate sensitivity. Are you **absolutely sure** that the word "REQUIRES" describes that situation accurately?

@cbfool Exactamundo. No satellite or radiosonde "signature" of warming. **REQUIRED** by theory... but not there. [\[Lonny Eachus, 2015-11-29\]](#)

"REQUIRED"? You keep using that word. I do not think it means what you think it means. See above.

And anyone who clicks on [my link](#) will see that I've [repeatedly](#) told Jane/Lonny that "even if" the "hot spot" were actually missing, Jane/Lonny would still be wrong about the implications. [\[Dumb Scientist\]](#)

You cited one person's opinion about that. ... [\[Jane Q. Public, 2015-10-28\]](#)

... You quoted one person's opinion. ... [\[Jane Q. Public, 2015-10-06\]](#)

No, I [cited Ingram 2013](#), specifically [this figure](#), and [cited Soden and Held 2006](#) fig. 3 (left) because it's just a mirror image of that Ingram 2013 figure.

... Further, if your quoted passage (that was presented **out of context** as has been your usual habit) was NOT from the paper, then my mistake. Fine. But I cleared that up straight away. ... [\[Jane Q. Public, 2015-09-30\]](#)

IF?! IF the quote I showed him which I labeled "**2013**" wasn't from a **2015** paper, **then** Lonny's comment about a 2015 paper **wasn't** what this entire exchange has been about! [\[Dumb Scientist\]](#)

Yes, "if". Do you really expect me to be interested enough in your BS to check dates on the incessant quotes you make? What a laugh. ... [\[Jane Q. Public, 2015-10-01\]](#)

No Jane, sadly I don't expect you to be interested enough in science to check dates, or even click on a single link to discover that I wasn't linking to a 2015 paper. Worse, I don't even [expect](#) you to [understand](#) how [ironic it is for you](#) to [admit](#) that your "[skepticism](#)" is [based](#) on a [stubborn refusal](#) to [even look](#) at the [evidence](#).

... But since YOU brought it up: that paper has **ALSO** been criticized for its low-credibility theory of how low clouds and a new model of convective atmospheric mixing **could** (unverified and currently unverifiable) explain discrepancies in model sensitivities. Yawn. Yep. 2 papers (2013 and 2015) = 2 new unverifiable climate models that disagree with **everyone else's** climate models. You have been reported. Again. [\[Jane Q. Public, 2015-10-01\]](#)

Sadly, Jane still doesn't understand that 2015 paper is **totally irrelevant**. Since Jane can't admit I cited Soden and Held 2006, maybe "that" paper is Jane's way of referring to Ingram 2013? If so, Jane's uncited and hopelessly vague criticism isn't in [Google Scholar](#) or [in Google](#).

[It's especially bizarre that Jane/Lonny tries to make](#) (yet another absurd) "[argument from consensus](#)" by [pretending](#) that "everyone else's climate models" [disagree](#) with that [simple](#) lapse rate feedback point.

Jane/Lonny claims an imaginary consensus of "**everyone else's** climate models" even though he can't even cite a single paper to support his position. So Jane/Lonny probably won't be able to admit that [Andrew Dessler](#) explained (at 4:19) that the greenhouse effect would **cease to exist** if the upper troposphere weren't colder than the surface.

If you've already [insinuated](#) that he's dishonest then learn physics here:

"... (One sometimes sees the argument that a consequence of smaller upper tropospheric warming in the tropics would be lower climate sensitivity, since a large fraction of water vapor feedback originates in this region, and the large vapor increase could not occur without the temperature increase. But this is not the case, because of the cancellation between negative lapse rate and positive water vapor feedbacks produced by upper tropospheric warming. In fact, the negative lapse rate feedback is generally the larger of the two, so a weaker upper level tropical warming would probably increase climate sensitivity a bit, holding everything else fixed.) ..." [\[Isaac Held, 2011-12-07\]](#)

Where were Jane's imaginary "everyone else" when Andrew Dessler and Isaac Held and [others](#) explained those basic physics? Out to imaginary lunch?

I didn't claim troposphere had to be hot. I wrote "warm faster". Two VERY different things. [\[Lonny Eachus, 2015-10-27\]](#)

They're "VERY different" because one **actually IS required** and the other **isn't required**, despite Lonny's endless tantrums to the contrary. If the troposphere isn't colder than the surface, the greenhouse effect disappears. So surface warming would have to be due to something like a brighter sun which **doesn't** require a cold upper troposphere to warm the surface. But [once again](#) if the troposphere doesn't warm faster than the surface, that has "roughly nil" implications for climate sensitivity.

I asked a simple question: the premise behind AGW is that a band of [slightly warmer air](#) in the mid-troposphere. I asked how that band of [warmer air](#) warms an even warmer Earth surface. Simple question. Nobody has an answer. I just want somebody to show the [physics](#) of how that happens.

Pierrehumbert rather glaringly omitted that part. ... [\[Lonny Eachus, 2015-04-08\]](#)

That's not the "premise behind AGW". It's [Sky Dragon Slayer nonsense](#), and it's exactly the claim Lonny just denied making. After spending months repeatedly showing Jane/Lonny the basic physics of how a cold upper troposphere warms the surface, it's amusing to watch Lonny Eachus deny making these claims:

... He states "The greenhouse effect shifts the planet's surface temperature by reducing the rate at which the planet loses energy at a given surface temperature." Which SOUNDS reasonable, but there is no physics behind it. The radiative power output at a given temperature is $\text{Area} \times (\sigma \times \epsilon) \times T^4$, as described before. Atmosphere has no power to slow down this basic physics equation. As long as the atmosphere is COLDER than the surface, the surface will continue to radiate AT THE SAME RATE, until it in turn cools off. HEAT TRANSFER to other objects might vary... but the radiative power output associated with a given temperature remains the same. Atmosphere has no power to alter it. AND... I repeat: CO2 is NOT any kind of "insulating blanket", either. CO2 is a very efficient convective cooler... not an insulator. ... [\[Lonny Eachus, 2015-04-07\]](#)

I asked a simple question: the premise behind AGW is that a band of [slightly warmer air](#) in the mid-troposphere. I asked how that band of [warmer air](#) warms an even warmer Earth surface. Simple question. Nobody has an answer. I just want somebody to show the [physics](#) of how that happens. Pierrehumbert rather glaringly omitted that part. ... [\[Lonny Eachus, 2015-04-08\]](#)

... he says [this](#): "An atmospheric greenhouse gas enables a planet to radiate at a temperature lower than the ground's, [if there is cold air aloft](#)." However he does NOT then go on to explain HOW the [cooler atmosphere](#) "keeps" the surface warmer. He just makes the bald claim. No [physics](#) to back it up. No mechanism whereby that works. Nothing. Huge gap in his chain of logic. It's an assumption. My point has been that nobody has shown, using solid physics, HOW the [cooler atmosphere](#) is supposed to warm the surface. Pierrehumbert doesn't say or show. All his math (which [doesn't disagree](#) with mine even a little) is only for emission spectra. At no point does he explain how a [cooler atmosphere](#) is supposed to make the surface warmer than otherwise. It DOESN'T work by simple ["back radiation"](#) as often claimed. I have explained that. That's the big hole in everyone's logic. ... [\[Lonny Eachus, 2015-04-08\]](#)

Lonny, that's Sky Dragon Slayer nonsense you're spreading. And it's an answer to your [bizarre accusations](#).

... for the vast majority of papers on AGW which make use of Global Circulation Models, faster warming of the mid-to-upper troposphere is an implicit assumption because most GCMs make that assumption. You cite papers that made use of these GCMs all the time, yet now you claim they are based on false assumptions? Well, gee, there's a surprise: you contradicted yourself again. [\[Jane O. Public, 2015-10-28\]](#)

Nonsense, Jane. Faster warming of the mid-to-upper troposphere is **NOT** an assumption made by ANY GCM, let alone "most" GCMs. In reality, GCMs make assumptions like the shape of Earth's continents and the laws of physics. Jane should learn the difference between an "assumption" and an "emergent property". Especially since that emergent property has "roughly nil" implications for climate sensitivity.

Jane pretends I've somehow claimed GCMs are "based on false assumptions" just like he [previously claimed](#) I'd somehow "admitted" that Jane's silly "hot spot" is missing. Once again, I'll make this crystal clear. I **don't** "admit" that a "hot spot" is missing because that's just a silly meme (probably started by Lord Monckton) which spread like a virus on gullible crackpot websites like WUWT. Any "skeptical" who caught that virus ignores large uncertainties showing that there isn't a statistically significant difference between projected and observed temperatures in the upper troposphere.

Has anybody noticed that the error bars are bigger than the effect itself? [\[AZComendador, retweeted by Lonny Eachus, 2015-12-08\]](#)

Yes. Once again, anyone who tries to spread that silly "missing hotspot" meme is ignoring large uncertainties showing that there isn't a statistically significant difference between projected and observed temperatures in the upper troposphere. That's why scientists who notice the error bars publish papers saying things like this:

"... there is no reasonable evidence of a fundamental disagreement between tropospheric temperature trends from models and observations when uncertainties in both are treated comprehensively." [\[Thorne et al. 2010\]](#)

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Re:record-shattering recording instruments (Score:2)

by [khayman80 \(824400 \)](#) on 2016-01-26 15:29 (#51376517) [Homepage Journal](#)

NOAA ignores its own satellite records (which it previously claimed were more accurate than surface temperature measurements) to make that claim. And it's just like them to do so. They choose whichever dataset that supports their pre-formed conclusions. ... [\[Jane O. Public, 2014-10-21\]](#)

... The recent declaration of 2014 as "the hottest year" -- when it wasn't anything of the kind -- is a wonderful illustration of the idiocy behind CO2 warming alarmism. Self-described Climate Scientists claimed the satellite temperature record would be the most accurate ever. And it is. But now that the satellite data is disproving their pet theory, they just leave that data out. It's really quite hilarious. [\[Jane O. Public, 2015-01-25\]](#)

When the satellites launched, climate scientists lauded them as "the most accurate climate data sources" in existence. Now that the satellite data does not support their "climate change" [scam](#), they just leave it out... [\[Lonny Eachus, 2015-02-02\]](#)

Funny, but when satellites launched, they were proclaimed to begin a new era in accurate climate measurements... but now that they disagree with [your agenda](#), they are downplayed or ignored. [\[Lonny Eachus, 2015-04-04\]](#)

Funny. It was claimed satellites marked a new era in accurate climate data, ignored now they don't agree. [\[Lonny Eachus, 2015-04-07\]](#)

Satellite data was all the rage in the 90's when it was warming. [climatism.wordpress.com/2014/02/09/est...](#) [\[JWSpry, retweeted by Lonny Eachus, 2015-06-04\]](#)

RSS/UAH sat data was all the rage in the 90's, when it was warming. Now scoffed at. [\[JWSpry, retweeted by Lonny Eachus, 2015-08-22\]](#)

Alarmists used 2 love satellite data when it read > GISS/NOAA #ClimateFraud [\[Chuck L\]](#)

Yep. When sats agreed with them they called it "the best data there is." [\[Lonny Eachus, 2016-01-26\]](#)

Nonsense. In the 1990s UAH actually showed **cooling** because of [all the flaws](#) in Dr. Spencer's analysis which other scientists had yet to correct for him. It wasn't until **after** Dr. Spencer finally corrected for [all these](#) spurious cooling trends in his analysis that UAH showed warming!

So Lonny's claim is patently absurd. UAH data couldn't **possibly** have been "all the rage in the 90's" with "alarmists" because UAH data showed cooling in the '90s! Perhaps Lonny doesn't care about facts and is simply [playing a game](#)?

What a [sadly typical example](#) of fractally wrong [nonsense](#) being [repeated](#) by [gullible crackpots they heard](#) at a [conspiracy theory echo chamber](#).

Of course, Lonny's just projecting again. Jane/Lonny previously cited ocean heat content (OHC) measurements based on satellite data until I [showed him](#) that those OHC data doesn't support his [denial](#) of [global warming](#). Guess which of those satellite datasets [reveals ~90%](#) of heat added to Earth, and which only reveals a [cherry-picked ~1%](#).

[Parent](#)[Share](#)[twitter](#) [facebook](#) [linkedin](#) **Re:record-shattering recording instruments (Score:1)**by [Jane Q. Public \(1010737 \)](#) [Friend of a Friend](#)[Foe of a Friend](#) on 2016-01-21 1:18 ([#51342105](#))

I doubt you should spend any time with someone who rejects radiative physics.
But I'm not one of them, so what's your problem?

Nor did I say the Twin Towers were an inside job.

And the birth certificate on the Whitehouse website **IS** fake. Don't take my word for it... ask anyone who has a knowledge of computer graphics download it and examine it. They'll tell you the same.

BUT -- as I have stated many times here on Slashdot -- there could be a number of perfectly legitimate reasons for that. **I do not claim he was not born in America.** Which is what you seem to be implying. Imagine that.

And that's where all your bullshit comes from: distortions.

As I stated before, I know you can find references. And Tamino (just as I predicted) is one of "The Usual Suspects".

However, Tamino's work does NOT refute Christy, Norris et al. 2005, or 2008. Or Christy & Spencer 2012.

And [Thorne et al. 2011](#) says the homogenization methods used by RATPAC and similar models (the kind Tamino likes to cite) are inadequate.

I already told you, it's pointless to go there. You can look those papers up just fine if you want to, but you won't prove anything.

[Parent](#)[Share](#)[twitter](#) [facebook](#) [linkedin](#) **Re:record-shattering recording instruments (Score:3)**by [Layzej \(1976930 \)](#) [Fan](#) on 2016-01-21 1:47 ([#51342181](#))

Are you sure you're not a 911 truther? <http://slashdot.org/comments.p...>

Are you sure you don't deny basic physics? <http://dumbscientist.com/archi...>

Either way, Tamino doesn't refute Christy's & Spencer validations of UAH emperature data sets. That is true. The UAH satellite record actually shows MORE warming than the land based measurements. <http://woodfortrees.org/plot/u...> . Tamino shows that RSS satellite record does not line up with tropospheric temperature measurements. Shall we disregard UAH, land based measurements, tropospheric measurements, and only trust RSS?

[Parent](#)[Share](#)[twitter](#) [facebook](#) [linkedin](#) **Re:record-shattering recording instruments (Score:2)**by [Jane Q. Public \(1010737 \)](#) [Friend of a Friend](#)[Foe of a Friend](#) on 2016-01-21 2:29 ([#51342309](#))

Are you sure you're not a 911 truther? <http://slashdot.org/comments.p...>

What is a "9/11 Truther"? And what does it have to do with climate change?

Why was your reply to a comment about climate change an attempt at character assassination?

As for Dumb Sci, I've been telling him for years to stop distorting my words and misrepresenting me out-of-context. But I have to ask again: why do you ask? What does it have to do with the subject at hand? Do you have a problem just addressing the subject without insulting people who may disagree?

In fact it's rather remarkable how amazingly similar you two are in that regard. *Anyway:*

The UAH satellite record actually shows MORE warming than the land based measurements.

You already wrote that.

Either way, Tamino doesn't refute Christy's & Spencer validations of UAH emperature data sets.

Wrong. Tamino [does make it quite clear, quite publicly](#) that he disapproves of the adjustments made to UAH.

Shall we disregard UAH, land based measurements, tropospheric measurements, and only trust RSS?

What the hell are **you** talking about? I suggested no such thing. In fact I haven't any idea where that came from. It has nothing to do with anything I wrote.

He did in fact deride UAH and its adjustments recently.

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Re:record-shattering recording instruments (Score:0)

by Anonymous Coward on 2016-01-21 7:02 ([#51342809](#))

Correlation != causation.

Parent

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Re:record-shattering recording instruments (Score:3)

by [Layzej \(1976930 \)](#) Fan on 2016-01-21 11:53 ([#51344437](#))

In fact it's rather remarkable how amazingly similar you two are in that regard.

Yes, I know. A fourth conspiracy theory. This is why it is rather pointless to talk with you.

Wrong. Tamino does make it quite clear, quite publicly [wordpress.com] that he disapproves of the adjustments made to UAH.

Well, the adjustments he objects to were made after the record was validated against the radiosonde data. The adjustments put the satellite data way out of sync with radiosonde data. You are a fan of the validation against the radiosonde data because you feel that this shows the satellite reconstruction to be strong and valid. You are also a fan of the satellite adjustments that now put the satellite reconstruction way out of sync with the radiosonde data. They say that wisdom is the ability to hold multiple conflicting truths in your head without budging. I'm not so sure...

Parent

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Re:record-shattering recording instruments (Score:0)

by Anonymous Coward on 2016-01-21 15:15 ([#51346061](#))

What is a "9/11 Truther"? And what does it have to do with climate change?

A "9/11 Truther" is someone who regurgitates these arguments (they'll deny it, because they deny things the way most people breathe).

<https://archive.is/G58Im> <https://archive.is/GuGzE>

<https://archive.is/TjIMk> <https://archive.is/uIGnF>

<https://archive.is/vLLom> <https://archive.is/Iz0A2>

<https://archive.is/k10c4> <https://archive.is/KFkCq>

<https://archive.is/XtZO6> <https://archive.is/LHZC7>

<https://archive.is/MKEDO> <https://archive.is/NNjEv>

<https://archive.is/B1jsw> <https://archive.is/dqD3R>

<https://archive.is/1EDRS> <https://archive.is/rhYhe>

<https://archive.is/fvX5f> <https://archive.is/E9iuB>

<https://archive.is/RXXHh> <https://archive.is/upXji>

This is very similar to climate change, where Sky Dragon Slayers like Dr. Latour deny basic physics. A "Sky Dragon Slayer" is someone who regurgitates these arguments (they'll deny it, because they deny things the way most people breathe).

<http://slashdot.org/comments.p...>

<http://politics.slashdot.org/c...>

<http://science.slashdot.org/co...>

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Re:record-shattering recording instruments (Score:0)

by Anonymous Coward on 2016-01-22 17:56 ([#51354153](#))

I've [repeatedly told Jane/Lonny Eachus](#) that true skeptics might wonder how Dr. Christy and Dr. Spencer also claimed agreement before satellite adjustments:

1997: "There isn't a problem with the measurements that we can find," Spencer explained. "In fact, balloon measurements of the temperature in the same regions of the atmosphere we measure from space are in [excellent agreement](#) with the satellite results." Dr. Christy explained further, "In particular, we've

examined these two 'breaks' claimed by Hurrell and Trenberth. Even in these disputed intervals, we find excellent agreement between the two independent, direct atmospheric temperature measurements from balloons and satellites."

So Christy and Spencer claimed "excellent agreement" between their modeled satellite temperatures and balloons. Then other scientists found several mistakes in their model:

[Hurrell and Trenberth 1997](#) found that UAH merged different satellite records incorrectly, which resulted in a spurious cooling trend.

[Wentz and Schabel 1998](#) found that UAH didn't account for orbital decay of the satellites, which resulted in a spurious cooling trend.

[Fu et al. 2004](#) found that stratospheric cooling had contaminated the UAH analysis, which resulted in a spurious cooling trend.

[Mears and Wentz 2005](#) found that UAH didn't account for drifts in the time of measurement each day, which resulted in a spurious cooling trend.

After grudgingly fixing all these errors, Christy and Spencer might have deigned to explain why they claimed that their previously incorrect modeled satellite temperatures were in "excellent agreement" with balloon data. Instead, they appear to have (correctly) assumed that their unskeptical supporters won't notice or care if they repeat exactly the same claim with their new and differently modeled satellite temperatures.

A true skeptic might wonder how that's possible, but Jane/Lonny Eachus probably won't address this issue with anything but misdirection and baseless insinuations.

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[Re:record-shattering recording instruments \(Score:3\)](#)

by [Layzej \(1976930 \) Fan](#) on 2016-01-22 20:48 ([#51354893](#))

Great minds think alike (especially, I suppose, if Jane is right and they share the same head).

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[Re:record-shattering recording instruments \(Score:0\)](#)

by Anonymous Coward on 2016-01-25 18:46 ([#51370055](#))

I've [failed](#) to [communicate once again](#) and [again](#) and [again](#) and [again](#) and [again](#) and [again](#) and [again](#) and [again](#).

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[Re:record-shattering recording instruments \(Score:0\)](#)

by Anonymous Coward on 2016-01-21 15:30 ([#51346181](#))

And the birth certificate on the Whitehouse website IS fake. Don't take my word for it... ask anyone who has a knowledge of computer graphics download it and examine it. They'll tell you the same.

"This looks shopped / I can tell from some of the pixels and from seeing quite a few shops in my time." [Seriously?](#) You're seriously trying to run a meme as an argument.

Remember when /b used to be good?

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[Re:record-shattering recording instruments \(Score:1, Flamebait\)](#)

by [Bartles \(1198017 \) Foe of a Friend](#) on 2016-01-20 23:22 ([#51341825](#))

Satellites are not the best instruments we have if they do not show the warming we want to see. Ocean temperature buoys are also not the best instruments we have because they do not show the same level of warming as water drawn into a freighter's engine. The instrumentation is only good if it creates enough hysteria to guarantee more funding.

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[Re:record-shattering recording instruments \(Score:4, Informative\)](#)

by [Layzej \(1976930 \) Fan](#) on 2016-01-20 23:38 ([#51341883](#))

Your best bet is to consider all available evidence. Deniers would like to ignore the record warming that we're measuring on the surface in favour of the tropospheric temperatures obtained by the satellites... but not the UAH satellite data set because that shows rapid warming too. And not the tropospheric measurements obtained by RATPAC because they show rapid warming too. They would prefer you look only at the RSS data set. That is pure as the driven snow.

Regarding ocean warming... We've accumulated 150 zetajoules of warming in the oceans over the last 18 years. It took over 130 years prior to accumulate the same amount. The rate of increase is now the equivalent of 4 nuclear bombs per second. It's not the amount that should worry us though as much as the acceleration. - <http://www.cbc.ca/news/technol...>

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Re:record-shattering recording instruments (Score:1)

by [JoeMerchant \(803320 \)](#) [Alter Relationship](#) on 2016-01-20 23:24 ([#51341831](#))

The "Usual Suspects" seem to have fallen silent on the "your science is faulty" front - we should look to lead in the gasoline, asbestos in the insulation, and other past denial events to get a clue as to their next moves.

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Re:record-shattering recording instruments (Score:0)

by Anonymous Coward on 2016-01-21 4:08 ([#51342499](#))

Who ares if you're tired of it? It's still the damn truth.

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Re:record-shattering recording instruments (Score:2)

by [AlterEager \(1803124 \)](#) [Alter Relationship](#) on 2016-01-21 7:11 ([#51342841](#))

Now, I am quite sure you can find references from The Usual Suspects which disagree with some of these points, but I can dig up references too. And that would just make it pretty much a matter of he-said, she-said, and won't get us anywhere, so I won't likely bother to respond if you do. I've seen them all.

Does Carl Mears, VP of RSS count as one of the "usual suspects"?

A similar, but stronger case can be made using surface temperature datasets, which I consider to be more reliable than satellite datasets (they certainly agree with each other better than the various satellite datasets do!).

-- Carl Mears

Not many years ago (just before the AGW hysteria began, in fact), the satellites were widely hailed as "the best instruments we have".

Yes: http://science.nasa.gov/science-news/science-at-nasa/1997/essd06oct97_1/

Just how accurate are space-based measurements of the temperature of the Earth's atmosphere? In a recent edition of Nature, scientists **Dr. John Christy of the University of Alabama in Huntsville, and Dr. Roy Spencer of NASA/Marshall** describe in detail just how reliable these measurements are.

This was just before it was found that Christy and Spencer had got the sign wrong in their manipulation of the data.

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Re:record-shattering recording instruments (Score:2)

by [Jack Griffin \(3459907 \)](#) [Alter Relationship](#) on 2016-01-20 23:25 ([#51341837](#))

temperature recording stations, which have never been a constant, and you rely on multimillion dollar satellites

The satellites are also not constant. You have to adjust for ...

Retreating glaciers are constant though...

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Re:record-shattering recording instruments (Score:1)

by [surd1618 \(1878068 \)](#) [Alter Relationship](#) <imoore1984@gmail.com> on 2016-01-21 14:00 ([#51345437](#)) [Journal](#)

I trust a website called climaterocks.com exactly as much as I would trust a website called, say, scientifictruth.com, which is to say, absolutely not at all.

--

The reasonable man adapts himself to the world; the unreasonable one persists in trying to adapt the world to himself. T

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Re:record-shattering recording instruments (Score:3)

by [Layzej \(1976930 \)](#) [Fan](#) on 2016-01-21 14:59 ([#51345919](#))

It's actually a pretty good site in spite of the shitty (ha ha) name. Would you trust Carl Mears who developed the RSS satellite record? He is quoted here: "they are not thermometers in space. The satellite [temperature] data ... were obtained from so-called Microwave Sounding Units (MSUs), which measure the microwave emissions of oxygen molecules from broad atmospheric layers. Converting this information to estimates of temperature trends has substantial uncertainties."

- <http://www.theguardian.com/env...>

He's also quoted in this video: <https://youtu.be/UVMsYXzmUYk>

Senator Cruz focuses on one data set (mine) from one type of instrument (satellite) and he ignores all of the other evidence. For example the surface temperature record, things like the arctic sea ice declining, things like the time of year that plants flower or leaf out. All of those sorts of things he's ignored in favour of this one piece of evidence that supports the story that he wants to tell.

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[Re:record-shattering recording instruments](#) (Score:0)

by Anonymous Coward on 2016-01-21 15:03 ([#51345949](#))

The sensor automatically calibrates by measuring the temperature of an on-board platinum wire thermometer and the cosmic background temperature, so sensor degradation is a non-issue.. Stratospheric signal is relatively constant and likewise a non-issue. Orbital decay has been an issue, but that was corrected.

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[Re:record-shattering recording instruments](#) (Score:3)

by [Layzej \(1976930 \)](#) [Fan](#) on 2016-01-21 16:32 ([#51346599](#))

The folks who developed the satellite reconstruction disagree. They say that there are substantial uncertainties. Certainly, the two major satellite reconstructions do not agree with each other or with radiosonde data. They recommend using the satellite reconstructions as one piece of data among dozens rather than treating them as a gold standard that somehow trumps all others.

"they are not thermometers in space. The satellite data were obtained from so-called Microwave Sounding Units (MSUs), which measure the microwave emissions of oxygen molecules from broad atmospheric layers. Converting this information to estimates of temperature trends has substantial uncertainties." - Carl Mears of RSS

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Man is an animal that makes bargains: no other animal does this-- no dog exchanges bones with another. -- Adam Smith

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