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by Steve McIntyre

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The Impact of Yamal on the Spaghetti Graph

We've been discussing Briffa and Yamal at CA for a couple of years and many, if not most, regular readers understand the significance of the Yamal collapse. For example, as recently as Sept 19, we were observing the dependence of the Kaufman reconstruction on the Yamal series. So the long-sought fresh information on Yamal (and I've been aware of that the Yamal data had been finally placed online for only a few days) fell on fertile soil here.

Some commentators have been very quick to seize on one more example of perceived Team iniquity. That I had been publicly seeking this data for a long time and that Briffa had withheld the data not just from me (but also from D'Arrigo et al, for example) lent an unsavory aspect to CRU's conduct, fresh after widespread unfavorable publicity for CRU's withholding of temperature data (by Briffa's long-time colleague and mentor, Phil Jones.)

Between these two camps, there are obviously readers who wish to understand the implications, if any, of the Yamal problems, without being particularly interested in the sordid backstory of past obstruction. I'll try to provide some notes on this today. These are not comprehensive, but introductory.

IPCC AR4 said that the late 20th century was the warmest in 1300

NOTICE

Click on the "Reply" link to respond to a comment.

Jan 20 CA Assistant

[\[http://climateaudit.org/assistant/\]](http://climateaudit.org/assistant/) updated. Better support for Lucia's blog; "Recent comments" improved. *Frequent visitors will want this.*

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-ee-2005.pdf]

NAS Panel

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-mm.pdf]

Reply to Huybers

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-huybersreply.pdf]

Reply to von Storch

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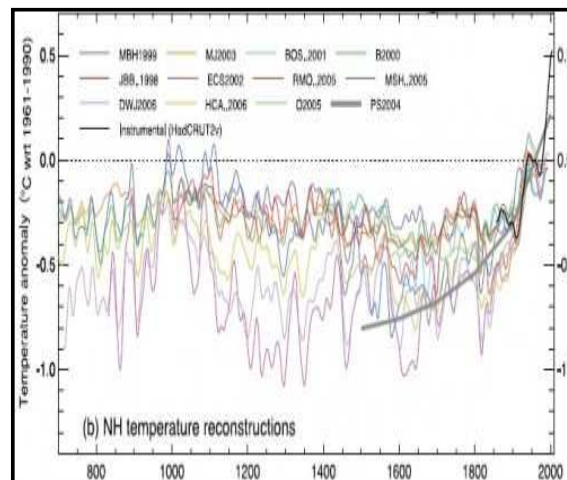
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Andrew Revkin

[<http://dotearth.blogspot.com/2009/09/29/the-impact-of-yamal-on-the-spaghetti-graph/>]

reconstructions by a relatively small group of authors (the "Hockey Team" or the "Team"). These reconstructions are typically presented in a smoothed version as what I've called here "spaghetti graph" – a term that has spread into wider usage. The IPCC AR4 spaghetti graph is shown below. Wikipedia has a similar spaghetti graph; the NAS Panel had a simplified spaghetti graph. In detail, these reconstructions seem to agree on very little other than that the modern warm period is slightly warmer than the Medieval Warm Period.

The IPCC spaghetti graph contains 10 "multiproxy" reconstructions, 9 of which go back to the MWP. These will be discussed below. It also contains a short reconstruction from boreholes and a short reconstruction from glacier advance and recession, neither of which pertains to the medieval-modern differential and will not be discussed here.



[<http://climateaudit.files.wordpress.com/2009/09/29/the-impact-of-yamal-on-the-spaghetti-graph/>]

You will frequently see apologists state that these reconstructions provide "independent" evidence. However, this is not the case on two counts. The same proxies are used over and over again – a point reported at CA on many occasions and confirmed in Wegman et al 2006. Thus, if problems

Boulton Information

[<http://climateaudit.org/2009/09/29/the-impact-of-yamal-on-the-spaghetti-graph/>]
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-boulton-bio-watch/]

Boulton's Changing Story

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-changing-story/]

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Miracles and Strip Bark Stanc
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-at-the-canadian-social-
geologists/#comment-2

Steve McIntyre on

World Dendro 2010 Withdraw
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-dendro-2010-withdraw
invitation/#comment-2

DABbio on

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-dendro-2010-withdraw
invitation/#comment-2

Bradley J. Fikes

[<http://sandiegoscience.com/2009/09/29/the-impact-of-yamal-on-the-spaghetti-graph/>]
on

Cicerone at the AAAS

[<http://climateaudit.org/2009/09/29/the-impact-of-yamal-on-the-spaghetti-graph/>]
-at-the-aaas/#comment-2

David Longinotti on

World Dendro 2010 Withdraw
[<http://climateaudit.org/2009/09/29/the-impact-of-yamal-on-the-spaghetti-graph/>]
-dendro-2010-withdraw
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Pat Frank on

World Dendro 2010 Withdraw
[<http://climateaudit.org/2009/09/29/the-impact-of-yamal-on-the-spaghetti-graph/>]
-dendro-2010-withdraw
invitation/#comment-2

Anthony Watts [http://www.wattsup.com/]	and not be contained to one result. More on this below. In addition, there are not really 10 "independent" groups, as "independence" is understood in the real world. Mann and Jones 2003 is not independent of Mann, Bradley and Hughes (1998) or Jones (Briffa) et al 1998 or Rutherford et al 2005 (Mann, Osborn, Bradley, Briffa, Hughes and Jones).	Tom P on World Dendro 2010 Withdrawal Invitation [http://climateaudit.org/-dendro-2010-withdrawal-invitation/#comment-2]
Bishop Hill [http://bishophill.squareblogs.com/]		justbeau on World Dendro 2010 Withdrawal Invitation [http://climateaudit.org/-dendro-2010-withdrawal-invitation/#comment-2]
Bob Tisdale [http://bobtisdale.blogspot.com/]		theduke on World Dendro 2010 Withdrawal Invitation [http://climateaudit.org/-dendro-2010-withdrawal-invitation/#comment-2]
Dan Hughes [http://danhughes.australianblogs.com/]		
David Stockwell [http://landshape.org/]		
Icecap [http://icecap.us/]	The other point – which I will state here but not prove – is a point about reconstruction methodologies. It is well known in the statistical climate blogs (CA, Jeff Id, David Stockwell, Lubos) that typical paleoclimate operations applied to red noise will yield HS patterns – a line of argument that Ross and I discussed in detail in connection with MBH PC methods, but the same problem arises when you cherry pick from red noise or do exponential correlation weighting. To my knowledge, the climate "community" is in denial on this issue. There is a corollary to this "theorem" – a point that we discussed in our Reply to von Storch and Zorita, which is very important, but which hasn't got as much attention. If you manually include a huge HS-shaped series in a bunch of red noise and apply standard paleoclimate methods to the network – CPS, as well as Mannian PCs – you get an enhanced HS back with a minor amount of static.	
Idsos [http://www.co2science.com/]		
James Annan [http://julesandjames.blogspot.com/]		Jimchip on Crutape Letters [http://crutapeletters.com/]
Jeff Id [http://noconsensus.com/]		Climategate News and Links [http://climateaudit.org/-news-and-links/#comment-2]
Josh Halpern [http://rabett.blogspot.com/]		Jimchip on Crutape Letters [http://crutapeletters.com/]
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NASA GISS [http://www.giss.nasa.gov/]		Jimchip on Crutape Letters [http://crutapeletters.com/]
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RealClimate [http://www.realclimate.org/]		Jimchip on Crutape Letters [http://crutapeletters.com/]
Roger Pielke Jr [http://rogerpielkejr.com/]	Rather than paleoclimate methods being "robust" as they self-proclaim, they are profoundly <i>non-robust</i> as this term is used in statistics – denoting the lack of stability of results to individual series. There are two series that play a particular role in the current spaghetti graph population: strip-bark bristlecones/foxtails (especially as Mann's PC1) and Briffa's Yamal (and its predecessor). These	Climategate News and Links [http://climateaudit.org/-news-and-links/#comment-2]
Roger Pielke Sr [http://pielkeclimate.com/]		Jimchip on Crutape Letters [http://crutapeletters.com/]
Roman M [http://statpad.wordpress.com/]		Climategate News and Links [http://climateaudit.org/-news-and-links/#comment-2]
Tamino [http://tamino.wordpress.com/]		Jimchip on Crutape Letters [http://crutapeletters.com/]
Warwick Hughes [http://www.warwickblogs.com/]		Climategate News and Links [http://climateaudit.org/-news-and-links/#comment-2]

William Connolley
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 WordPress.com
[\[http://wordpress.co\]](http://wordpress.com)
 World Climate Report
[\http://www.worldcli

Favorite posts

Bring the Proxies up to dat
[\http://www.climatea
 p=89]

Due Diligence
[\http://www.climatea
 p=66]

FAQ 2005
[\http://www.climatea
 page_id=1002]

McKittrick: What is the Hoc
[\http://www.climatea
 p=166]

Overview
[\http://www.climatea
 p=63]

Responses to MBH
[\http://www.climatea

Some thoughts on Disclos
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Wegman and North Report
 Newbies
[\http://www.climatea
 p=2322]

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[\http://climateaudit1

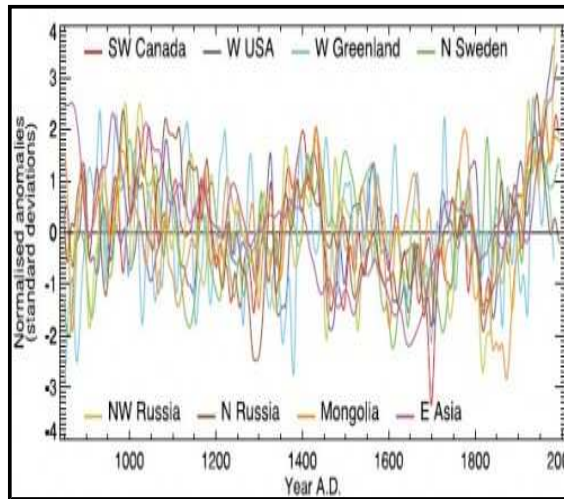
Latex Symbols
[\http://amath.colora

MBH 98
[\[ftp://holocene.evsc.](ftp://holocene.evsc)

Steve's Public Data Archiv
[\http://38.114.169.1

WDCP
[\http://www.ncdc.no

HS series – going off the top right corner of the graphic.



[\http://climateaudit.files.wordpress

Box 6.4, Figure 1. The heterogeneous nature of climate during the 'Medieval Warm Period' is illustrated by the wide spread of values exhibited by the individual records that have been used to reconstruct NH mean temperature. These consist of individual, or small regional averages of, proxy records collated from those used by Mann and Jones (2003), Esper et al. (2002) and Luckman and Wilson (2005), but exclude shorter series or those with no evidence of sensitivity to local temperature. These records have not been calibrated here, but each has been smoothed with a 20-year filter and scaled to have zero mean and unit standard deviation over the period 1001 to 1980.

One important "family" of spaghetti graph reconstructions are highly dependent on strip bark bristlecones/foxtails (a topic which has been much discussed here and elsewhere) but which do not use Yamal. These are "highly dependent" on strip bark bristlecones/foxtails in the sense that their methods do not yield a HS without them. Examples include MBH98-99, Crowley and

Jimchip
[\http://crutapeletters.v
 on
[Climategate News and Links](http://climateaudit.org)
[\[http://climateaudit.org\]](http://climateaudit.org)
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WordPress.com
[\http://wordpress.com

Wegman Reply to Stupak
[<http://www.uoguelp>

Wegman Report
[<http://www.uoguelp>

Weblogs and resources

Ross McKittrick
[<http://www.uoguelp>

Surface Stations
[<http://www.surface>

Archives

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in Rutherford et al 2005, Mann et al 2007 and Wahl and Ammann 2007.

A second “family” of spaghetti graph reconstructions are dependent on Briffa’s Yamal – again, in the sense, that the equivalent calculation using plausible alternatives (e.g. Esper’s Polar Urals version instead of Briffa’s Yamal) yield different MWP-modern relationships. Examples include Briffa 2000, the closely related D’Arrigo et al 2006 and very recently, Kaufman et al 2009 (despite its first impression of a very different network.)

A third “family” of reconstructions wears both belt and braces – i.e. using both strip bark and Yamal. Key examples are Mann and Jones 2003, Mann et al (EOS 2003), Osborn and Briffa 2006, Hegerl et al 2007. The recent UNEP graphic uses the Mann and Jones 2003 version. A common stratagem in these studies is a leave one out sensitivity – where they show that they can “get” a similar result by leaving out any individual proxy. They can do so safely because they have both Yamal and bristlecones.

There are a couple that are a bit sui generis, but these unfailingly have some serious problem.

Jones et al 1998 uses neither Yamal nor bristlecones, but still has a slight modern-medieval differential. In its early portion, it uses only three series, two of which are early Briffa series (Tornetrask and Polar Urals pre-update). Both these series have serious problems – Briffa’s original Tornetrask series contains a gross manual adjustment to increase the 20th century relative to the MWP. See early CA posts on this.

Moberg uses both bristlecones and Yamal, but I view it as sui generis as well. Moberg used some unorthodox wavelet methods, that I’ve sort of

the bristlecone versions used in Moberg are not Graybill versions and don't affect the result; they are merely fill. I'm not sure what impact Moberg's filtering method will have on Yamal – I've not analyzed that in detail, but may do so some day. I've discussed Moberg problems in the past and, for present purposes, merely note that it is not a safe haven, but that it does not appear to stand or fall with Yamal and thus is not discussed further today.

In summary, the apparent problems with Briffa's Yamal series impact multiple other studies:

Briffa 2000, Mann and Jones 2003 (used in the recent UNEP graphic), Mann et al (EOS 2003), Jones and Mann 2004, Osborn and Briffa 2006, D'Arrigo et al 2006, Hegerl et al 2007, Kaufman et al 2009 (and of course, Briffa et al 2008).

And because of the non-robust methods used in these studies, replacing the Briffa Yamal version with a more defensible alternative (such as Esper Polar Urals either individually or in combination with the subfossil Yamal data and Schweingruber russ035w in Yamal) is going to have a material impact on the medieval-modern differential.

**Possibly related posts:
(automatically generated)**

- **Briffa on Yamal Impact**
[\[http://www.climateaudit.org/-to-briffa-on-yamal-impact/\]](http://www.climateaudit.org/-to-briffa-on-yamal-impact/)
- **Fresh Data on Briffa's Yamal #1**
[\[http://www.climateaudit.org/-yamal-crack-cocaine-for-paleoclimatologists/\]](http://www.climateaudit.org/-yamal-crack-cocaine-for-paleoclimatologists/)
- **Difference in Yamal Versions**

Steve McIntyre <http://climateaudit.org/author/steve-mcintyre/>
Sep 29, 2009 at 7:55 AM
 [http://insignificant.org]

- **Briffa on Yamal Impact**
<http://climateaudit.wordpress.com/2009/09/29/briffa-on-yamal-impact/>

Ads by Google

[https://www.google.com/adsense/contact=abg_afc&url=http://climateaudit.org/2009/09/29/briffa-on-yamal-impact-of-yamal-on-the-spaghetti-graph/&hl=en&client=ca-pub-3443918307802676&adU=foe.org&as=foe.org&as_size=300x250&as_bg_color=#f9f9f9&as_text_color=#444444&as_link_color=#444444&as_border_color=#444444&as_border_size=1px]
 3Bs+Dirty+Truth&gl=US]

Canada's Dirty Truth

[s-p: [Go to foe.org](http://foe.org)]

Take action now to save the Boreal Forest from Big Oil.

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This entry was written by , posted on , filed under Briffa

[<http://en.wordpress.com/tag/osbc-briffa-2006/>] , Yamal and Urals

[<http://en.wordpress.com/tag/yamal-and-urals/>] . Bookmark the permalink

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76 Comments

bernie

Posted Sep 29, 2009 at 8:39 AM |

Permalink: [[#comment-195847](#)] |

Reply [[2009/09/29/the-impact-of-yamal-on-the-spaghetti-graph](#)]

This is a helpful reprise. Any change in adding the spaghetti-

tabulating the series in question?
 replyto.com=195847#respond]



Andrew Sep 29, 2009 at 8:42 AM |

Permalink [http://#devoidofnull.wordpress.com]

Reply [http://2009/09/29/the-impact-of-yamal-on-the-spaghetti-graph/?replyto.com=195848#respond]
 I notice that the caption on the second figure shows that the purpose of the graph in the plot report was to provide evidence for a "heterogeneous" MWP. That makes me wonder, has:

Esper, J. and Frank, D. 2009. The IPCC on a heterogeneous Medieval Warm Period. Climatic Change 94: 267-273.

Been discussed here?

J. Bob

Posted Sep 29, 2009 at 8:59 AM |
 Steve, excellent article. Is there a way to access some of the

Reply [http://2009/09/29/the-impact-of-yamal-on-the-spaghetti-graph/?replyto.com=195849#respond]
 plotted data you have shown in a text or EXCEL file format? I would like to compare it to the analysis I did using the long term European temperatures from Rimfrost.

PaulM

Posted Sep 30, 2009 at 2:26 AM |
 Permalink [http://globalwarmingquestions.googlepages.com/i#comment-195889]

Re: J. Bob (#3)
Reply [http://2009/09/29/the-impact-of-yamal-on-the-spaghetti-graph/?replyto.com=195889#respond]
 and Bernie (#1)

The data for Steve's first graph, fig6_10spaghetti, is available at **Tim Osborn's website**

[http://www.cru.uea.ac.uk/~timo/datapages/ipcca]

What I find interesting is that the graph shows a clear MWP around 1000 AD. And if you compare chalk with chalk, i.e. just look at the proxies, the

MWP is just as warm as the late 20th century, contradicting the IPCC's own claim (see **my page on this**

[[http://globalwarmingquestions.googlepages.com/;](http://globalwarmingquestions.googlepages.com/)

Steve, summary/overview posts like this are really helpful, please can we have more!

Robinedwards

Posted Sep 29, 2009 at 9:03 AM |
 Permalink: [#comment-195850] |
 Reply installed Oct 29, 2009
 establishment literature reads
 there any prospect that a paper
 could be written that would get
 past the "peer reviewers" of the

journals that seem to dominate political thinking on climate affairs? I know that I could not help in any way. If I could I would! The only feasible contribution would be by reading a draft copy and providing what I hope would be an impartial commentary.

It is quite mind-boggling in its implications, something that is certain to have been noticed by "The Team", who have so far as I can tell been keeping their counsel up to now.

Would there be any point in making direct contact with politicians? OK, we know that they don't understand any of this from a scientific viewpoint, but a careful drip-feed of the essence of Steve's unearthing of data that have hitherto been kept from public scrutiny might just have an effect. I have been in contact with my Member of Parliament regarding the FoI debacle regarding "classified" climate time series that Phil

Jones has convinced our MOD would be harmful if released to the general public. My request was refused with virtually identical wording to those of others who contribute to CA, and my MP appeared to be intending to take the matter further. I hope so.

Posted Sep 29, 2009 at 12:48 PM |
 Permalink [#comment-195867]
 Re: **PhilH**
 I **Robinedwards (#3)**
 Reply [/2009/09/29/the-
 impact-of-yamal-on-the-
 spaghetti-graph/?
 Chris Horner has a nice
 piece on this at Planet
 on line.
 replyto.com = 195867#respond]

Harold Vance

Posted Sep 29, 2009 at 9:48 AM |
 Thanks, Steve, for that brief
 overview of the spaghetti
 graphs and the series contained
 within. That was great.
 graph/?
 I would love to see the
 equivalent of a social network
 chart or map that illustrates the
 dependencies. Maybe something
 similar to the chart in Wegman's
 report on MBH? This would
 make it even easier to identify
 how these things are
 interconnected.

MJT1st

Posted Sep 29, 2009 at 1:12 PM |
 Permalink [#comment-195868]
 Re: **Harold Vance (#4)**
 I Steve has a chart on page
 12 in his Ohio State
 presentation that I believe
 shows what you are
 asking.
 replyto.com = 195868#respond]

Presentation

[<http://data.climateaudit.org/pdf/ohioshort.pdf>]

Thanks for the great work
Steve!

Posted Sep 29, 2009 at 9:10 PM |
Permalink [# Comment-195881]
| Reply [2009/09/29/the-
Re: **MJF 1st (#21)**
impact-of-yamal-on-the-
Comment
spaghetti-graph/?
357810] / thanks
replytocom=195881#respond]
for the reference.

Posted Sep 29, 2009 at 10:34 AM |
Permalink [# Comment-195852] |
Reply [2009/09/29/the-impact-
of-yamal-on-the-spaghetti-
graph/?
357810] / thanks
replytocom=195852#respond]
Do hockey fans need a recipe
for cherry pie?

First, take some tree rings:
Series at Yamal – select only
those 10 with thickened outer
rings, discard the remainder
Series of bristlecone pines –
select only those with strip bark

Then mix with:
Glacial lake sediments – turn
over if necessary

Cook with non-standard
statistical processes – for best
results use a Principal
Components method, although
acceptable results can be
obtained with other means.

Serve accompanied by press
release and cover photo for
Nature...

Craig Loehle

In the Yamal case, 12 trees
created the key hockystick-
ness. In the case of Bristlecone
pines, I believe there were
about 22 trees (anyone
remember?). So most of the
key result in the spaghetti graphs

is coming from about 30-35
trees. A few good men indeed
replytocom=195858#respond]

**Steve
McIntyre**

Re: **Craig Loehle (#6)**
Posted Sep 29, 2009 at 10:43 AM |
[#comment-3577751-4]
Permalink [#comment-195854]

| **Reply** [2009/09/29/the-
impact-of-yamal-on-the-
bristlecone-site, Ababneh
did not replicate Graybill/
?replytocom=195858#respond]
sample – Graybill having
selected for strip bark
trees. So there’s a
precedent here as well.

Alan

Posted Sep 29, 2009 at 11:37 AM |
S4
Blue
Permalink [#comment-195858]

| **Reply** Re: **Steve McIntyre**
impact (#7) [#comment-
3577771-1]atti-graph/?
replytocom=195858#respond]

It would seem to be
worthwhile to add a
paragraph discussing
the divergence issue
of the Greybill &
Ababneh data.

That is: The last
several posts are
pretty good at
highlighting “There
are reasons to
believe there are
problems in Yamal.”
You’ve made
reference above to
how strongly the
other reconstructions
rely on the
bristlecones and
foxtails – but a short
mention of the
results Ababneh got
rely deserves a slot
in here. We’re
discussing

divergence – and that surely is some.

Good Captain

Posted Sep 29, 2009 at 12:06 PM |
 Re: **Steve McIntyre**
 Permalink [#comment-195863]
 (#7) [#comment-357771]
 | Reply [7/2009/09/29/the-impact-of-yamal-on-the-spaghetti-graph/?eric=#195863#respond]
 I understand your question

correctly, neither of the two cited studies you mention w/stand "prima facie" scrutiny in light of the **sui generis** problems mentioned briefly in Mr. McIntyre's post. These two remaining "hockey sticks", while not subject to the post's main thrust, contain either obvious procedural issues and/or utilize questionable analytical "tools" not generally used or accepted w/in the general scientific community that in turn color their respective conclusions. Thus, the AGW crowd's primary intellectual foundation lies on life support barring some convincing rebuttal (which I believe they lack). In summation, Mr. McIntyre's determination to independently validate these many studies predicting future "runaway" temperature increases, has itself

lead to the most reasonable and logical explanation for these studies' disturbing predictions – "operator" error.

Steve: I've written posts on whether the Hockey Stick "matters" in the big picture and do not hold the same view as the one that you espouse here. Indeed, when people say to me: if the Stick is wrong, then the situation is much worse than we think and my answer is always: then we should know if it's wrong and govern ourselves accordingly and give no thanks to those people whose obstruction have delayed our becoming fully appraised of the situation. This is a different moral entirely. I don't want to debate this position at this time as I'm very busy on practical analyses.

bender

Posted Sep 29, 2009 at 5:48 PM |
 Re: **Good Captain (#16)**
 Permalink [#comment=195875]
 | **Reply** [/2009/09/29/the-
 impact-of-yamal-on-the-
 spaghetti-graph/?
 #comment=357799]
 replytocom=195875#respond]
 the
 AGW
 crowd's
 primary
 intellectual

foundation
lies on
life
support

The GCMs are not "life support". If you think that, and have solid evidence for it, go email Gavin Schmidt.

Posted ~~THU~~ Sep 29, 2009 at 10:46 PM |
Permalink [#comment-195883]
Re: **Craig Loenie (#7)**
| **Reply** [7/2009/09/29/the-
| **#comment-357775**],
impact-of-yamal-on-the-
Craig Loenie spaghetti graph/?
replytocom=195883#respond]

In the Yamal case, 12 trees created the key hockystick-ness. In the case of Bristlecone pines, I believe there were about 22 trees (anyone remember?). So most of the key result in the spaghetti graphs is coming from about 30-35 trees. A few good men indeed.

Did someone answer your question? Is the HS based on a total of 34 trees?

dearieme

Posted Sep 29. 2009 at 10:53 AM |

Permalink [#comment-195855] |
 Reply [2009/09/29/the-impact-of-yamal-on-the-spaghetti-graph/?replytocom=195855#respond]

"I've not analyzed that file, but I would say "some day" now they'll accuse you of making threats. ☺

Eric
 Posted Sep 29, 2009 at 11:04 AM |
 Permalink [#comment-195856] |
 Reply [2009/09/29/the-impact-of-yamal-on-the-spaghetti-graph/?replytocom=195856#respond]

Thanks for this great work and clarifying summary.
 Do I understand correctly that barring some serious and unforeseen defense of Yamal and Bistlecone pine proxies only two "hockey sticks" still stand to show that warming in our time is unprecedented, Jones et al 1998 and Moberg, and there are other concerns about these?

Phillip Brathy
 Posted Sep 29, 2009 at 11:12 AM |
 Permalink [#comment-195857] |
 Reply [2009/09/29/the-impact-of-yamal-on-the-spaghetti-graph/?replytocom=195857#respond]

Thank you Steve for that excellent summary. It is much appreciated.

Ecotretas
<http://ecotretas.blogspot.com/>
 Permalink [#comment-195859] |
 Reply [2009/09/29/the-impact-of-yamal-on-the-spaghetti-graph/?replytocom=195859#respond]

I have just checked the page where the raw data is, and it's interesting to see the timestamps involved with the different objects on the page. It seems to have happened happened on Sep, 8th. But what intrigues me Steve is the TayBavRing.raw file; it also seems to be new. Might it also represent something special?

Ecotretas

Tue, 08 Sep 2009 10:38:27
 GMT -

<http://www.cru.uea.ac.uk/cru/people/melvin/PhilTra>
[\http://www.cru.uea.ac.uk/cru/people/melvin/PhilTra
 Sat, 21 Apr 2007 07:33:04 GMT

-

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Thu, 24 Jul 2008 10:29:20 GMT

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Mon, 14 Apr 2008 08:01:00

GMT -

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Wed, 10 Dec 2008 10:50:18

GMT -

<http://www.cru.uea.ac.uk/cru/people/melvin/PhilTra>

[<http://www.cru.uea.ac.uk/cru/people/melvin/PhilTra>:

Tue, 08 Sep 2009 10:31:04

GMT -

<http://www.cru.uea.ac.uk/cru/people/melvin/PhilTra>

[<http://www.cru.uea.ac.uk/cru/people/melvin/PhilTra>:

Tue, 08 Sep 2009 10:31:08

GMT -

<http://www.cru.uea.ac.uk/cru/people/melvin/PhilTra>

[<http://www.cru.uea.ac.uk/cru/people/melvin/PhilTra>:

Jeff Id

Posted Sep 29, 2009 at 11:43 AM |

[<http://noconsensus.wordpress.com>]

Permalink [#comment-195860] |

Reply [2009/09/29/the-impact-

of-yamal-on-the-spaghetti-

graph/?

replytocom=195860#respond]

read some.

There is a corollary to this "theorem" - a point that we discussed in our Reply to von Storch and Zorita, which is very important, but which hasn't got as much attention. If you manually include a huge HS-shaped series in a bunch of red noise and apply standard paleoclimate methods to the network - CPS, as well as Mannian PCs - you get an enhanced

HS back with a a minor amount of static.

If I might, I did a post a while ago which got very little attention at the time that demonstrates exactly the effect referred to at least for CPS.

<http://noconsensus.wordpress.com/2009/06/23/hist-hockey-stick-pt-2/>

[<http://noconsensus.wordpress.com/2009/06/23/hist-hockey-stick-pt-2/>]

Posted Sep 29, 2009 at 12:45 PM |
 Permalink [/#comment-195866]
 Reply [/#comment-195866]
 Re: [Jeff Id \(#12\)](#)
 [/#comment-35792],
 yes, that's a great post!
 replytocom=195866#respond]

Posted Sep 29, 2009 at 11:48 AM |
 Permalink [/#comment-195861] |
 Reply [/#comment-195861]
<http://www.greenworldtrust.org.uk/Science/Curious.h>
 Thank you very much for that clarity Steve. graph/?
 replytocom=195861#respond]

While I've hung on with little more than best guesses, hunches when to skip, and fragments of understanding, I now feel I'm meeting you head on, relishing your story, grasping all the details, and seeing why one had to just hang on and slog on through the swamp.

Now this Hockey Stick hydra has three heads: Yamal, bristlecones, and CRU undisclosed records. My recent forays into the nearest reliable Arctic thermometer records from GISS and John Daly (at Jeff Id) all show thermometer records without any sign of the crucial sharp Hockey Stick upturn. I cannot believe CRU

can show anything very different.

Steve: The Arctic temperature record issues are entirely different and, as I've said before, I would like to keep such discussions entirely separate.

Posted Sep 30, 2009 at 1:22 PM |
 Permalink [#comment-195911]
 Reply [/2009/09/29/the-impact-of-yamal-on-the-spaghetti-graph/?replyto.com=195911#respond]
 Re: **Lucy Skywalker (#14)** [#comment-357794], I realized about three seconds after I'd hit "Submit" and checked your title, that my refs to temperature were off-topic. Apologies.

steven mosher

Posted Sep 29, 2009 at 11:50 AM |
 Permalink [#comment-195862] |
 Reply [/2009/09/29/the-impact-of-yamal-on-the-spaghetti-graph/?replyto.com=195862#respond]
 As Steve notes in his post there is a lot of history here. I wish that google worked better on searching CA or that I was smarter. Anyways, I was searching away looking for the first time I ever used the term "treemometer" (oct 13, 2007) and during my wanderings I ran across a 2006 thread discussing Yamal. Now, this was back in the day when Dendro's showed up here. back in the day when Steve Sadlov roamed the threads. Old school CA. It's pretty funny kim is there and hasnt changed one bit. And guess what Rob Wilson showed up.. and complained about not being able to get Briffa's data.

I'm not going to post the link. I worked hard to find this and you can core your own damn trees.

If bender asks nice, I will. Otherwise go read some old posts on Yamal before you open your cherry pie hole

Jimmy Haigh

Posted Sep 29, 2009 at 12:16 PM | Permalink [#comment-195864] |

Reply [2009/09/29/the-impact-of-yamal-on-the-spaghetti-graph/?replytocom=195864#respond] I can see are positive feedbacks between the different proxies: one feeds the other which feeds the other and all the way back around again.

Bob McDonald

Posted Sep 29, 2009 at 12:42 PM | Permalink [#comment-195865] |

Reply [2009/09/29/the-impact-of-yamal-on-the-spaghetti-graph/?replytocom=195865#respond] New Game Show slated to start in Spring 2010 on the Spaghetti Channel:
I can make that hockey stick with 8 trees, Steve!

I can make that hockey stick with.....7 trees!?

MAKE THAT HOCKEY STICK!

theduke

Posted Sep 29, 2009 at 12:51 PM | Permalink [#comment-195869] |

Reply [2009/09/29/the-impact-of-yamal-on-the-spaghetti-graph/?replytocom=195869#respond] <http://blogs.telegraph.co.uk/news/jamesdelingpole/1-the-global-warming-industry-is-based-on-one-massive-lie/>

<http://blogs.telegraph.co.uk/news/jamesdelingpole/1-the-global-warming-industry-is-based-on-one-massive-lie/>

<http://blogs.telegraph.co.uk/news/jamesdelingpole/1-the-global-warming-industry-is-based-on-one-massive-lie/>

Jonathan

Posted Sep 29, 2009 at 2:50 PM |

Permalink: [the duke \(#22\) 195871](#)
 | [Reply to comment-195871](#) |
 this is a Telegraph hosted
 blog, not part of the main
 spaghetti-graph/
 newspaper. But given that
 Richard North at the EU
 Referendum blog has also
 picked up on it you can
 probably assume it will
 feature in Christopher
 Booker's column next
 Sunday.

steven mosher Posted Sep 29, 2009 at 2:10 PM |
 Permalink: [#comment-195870](#) |
 Reply: [\[2009/09/29/the-impact-of-yamal-on-the-spaghetti-graph/#comment-195870\]](#)
 I wonder if Briffa had a
 confidential agreement with
 russian lumberjacks about
 revealing this proprietary ring
 data?

<http://www.climateaudit.org/?p=540#comment-14556>
[\[http://www.climateaudit.org/?p=540#comment-14556\]](http://www.climateaudit.org/?p=540#comment-14556)

kim Posted Sep 30, 2009 at 7:12 AM |
 Permalink: [#comment-195895](#)
 Reply: [\[2009/09/29/the-impact-of-yamal-on-the-spaghetti-graph/#comment-195895\]](#)
 Reply to [steven 195895](#) for that
 marvelous and prefiguring
 link, with Wilson, Sadlov,
 and yours truly. I have
 changed; back then I
 knew a lot more than I do
 now.

=====

mark fuggle
 Posted Sep 29, 2009 at 2:54 PM |
 Permalink [#comment-195872] |
 Reply [/2009/09/29/the-impact-
 of-yamal-on-the-spaghetti-
 graph/?
 http://www.theregister.co.uk/2009/09/29/yamal_sc
 [http://www.theregister.co.uk/2009/09/29/yamal_scar

Jeff Alberts
 Posted Sep 29, 2009 at 7:57 PM |
 Permalink [#comment-195876] |
 Reply [/whatcatastrophe.com
 of-yamal-on-the-spaghetti-
 graph/?
 replyto.com-195876#respond] Indeed, when people say to me if the Stick is wrong, then the situation is much worse than we think

Steve, I don't understand the logic there. How could be worse than we think if the HS is wrong?

Layman Lurker
 Posted Sep 29, 2009 at 8:25 PM |
 Permalink [#comment-195880] |
 Reply [/2009/09/29/the-
 impact-of-yamal-on-the-
 spaghetti-graph/?
 replyto.com-195880#respond] Re: **Jeff Alberts (#28)** I believe the argument is that a profound MWP implies a more sensitive climate. A flawed argument IMO, but since it is not the topic of the thread I will leave it at that.

kuhnkat
 Posted Sep 29, 2009 at 7:59 PM |
 Permalink [#comment-195877] |
 Reply [/2009/09/29/the-impact-
 of-yamal-on-the-spaghetti-
 graph/?
 http://treesforthe.wordpress.com/2009/09/26/
 model-hypothesis-tests#respond] have you read Chad's post bringing Santer up to date?

[\[http://treesfortheforest.wordpress.com/2009/09/26/a-model-hypothesis-tests/\]](http://treesfortheforest.wordpress.com/2009/09/26/a-model-hypothesis-tests/)

And Lucia's explanation of some of the results?

<http://rankexploits.com/musings/2009/temperatures-of-the-tropical-troposphere-chad-brings-santer-up-to-2008/>

[\[http://rankexploits.com/musings/2009/temperatures-of-the-tropical-troposphere-chad-brings-santer-up-to-2008/\]](http://rankexploits.com/musings/2009/temperatures-of-the-tropical-troposphere-chad-brings-santer-up-to-2008/)

Maybe not life support, but, not looking too good either.

bender
 Posted Sep 29, 2009 at 8:04 PM |
 Permalink [#comment-195878] |
 Re: **[Kuhnkat \(#29\)](#)**
 Reply [/2009/09/29/the-impact-of-yamal-on-the-spaghetti-graph/?comment=357834] |
 Of course. You know the rebuttal, right?
<http://rankexploits.com/musings/2009/temperatures-of-the-tropical-troposphere-chad-brings-santer-up-to-2008/>
 replytocom=195878#respond]

bender
 Posted Sep 29, 2009 at 8:23 PM |
 Permalink [#comment-195879] |
 No? Maybe you want to copy and paste McIntyre's response from that thread.
<http://rankexploits.com/musings/2009/temperatures-of-the-tropical-troposphere-chad-brings-santer-up-to-2008/>
 replytocom=195879#respond]

John A
[\[http://things.auditblogs.com\]](http://things.auditblogs.com)
 Posted Sep 29, 2009 at 10:36 PM |
 Permalink [#comment-195882] |
 Reply [/2009/09/29/the-impact-of-yamal-on-the-spaghetti-graph/?comment=195882] |
 Briffa's original Tornetrask series contains a gross manual adjustment to increase the 20th century relative to the MWP

[That is putting it mildly](#)
[\[http://www.climateaudit.org/?p=150\]](http://www.climateaudit.org/?p=150).

It drew this reaction from per:

Looking at this in broad daylight, I have to say that I am astonished. It is evident that you need the strongest possible justification for the data manipulation that was undertaken, and looking at the result of the data manipulation, it seems that it couldn't be possible to justify such a manipulation under any circumstances.

I too must have missed the section in the "How to do Science like real Scientists" book where scientists have the authority to alter the data to what they think it should be and then write it all up with statistical metrics as if nothing had gone on.

Antonio San

Steve FYI, snip at will...

Well in Canada here is the response of the Canadian Press

to my complaint about the Bob Weber account of Kaufman et al. 2009 in the Globe and Mail and the new developments: <http://www.cbc.ca/09/29/the-impact-of-yamal-on-the-spaghetti-graph/?replyto=195885#respond>

"Dear Mr. San: Thank you for your continued interest in our coverage of an important public issue. Before I address the substance of your complaint, allow me to point out that Bob Weber's job as a

reporter is to fairly reflect the nature and conclusions of the research. He did that in this case and so, with respect, I submit that your charge of bias is unwarranted.

Your main concern is with the conclusions of the scientist whose work is described. In rebuttal, you draw on the writing of Steve McIntyre, a one-time stock analyst who I believe has never been published in a peer-reviewed journal. His previous attacks on the "hockey-stick" theory have been examined and did not result in substantial changes to it. As we understand it, you agree with McIntyre's contention that proxies used in this particular climate reconstruction have been pre-selected or weighted to give a conclusion that agrees with climate orthodoxy. The Kaufman paper, while based on previous research, did not simply regurgitate older data sets. The data used were significantly deeper both in regard to time (2,000 years) and space (the entire circumpolar world). Its conclusions were widely reported and accepted by major science journalists around the world.

It is not our intention to debate the truth of climate change with you. The Canadian Press, like most reputable news organizations, seeks to accurately report scientific findings that have been judged legitimate by experts in the field. When peer-reviewed science appears that questions current models, we will report

on it. In fact, Bob Weber has done exactly that in the past.”

Since your concerns seem to have more to do with the article’s subject matter than with the accuracy of the reporting, we will respectfully consider this matter closed.

HEATHER BOYD
Prairies Bureau Chief”

My Complaint letter to them:

“As a follow up to my initial complaint about the biased tone of Mr Bob Weber story related to the Kaufman et al. 2009 “Arctic Warmer than it has ever been for the past 1,000years” that appeared in the Globe and Mail: A new development has happened thanks to the sleuth work by Steve McIntyre at climateaudit showing that there is a divergence between the full data and the Briffa data archived at CRU used by Kaufman et al. 2009. The late 20th century warming recorded is only shown on selected after the fact data while the entire dataset shows no “unprecedented warming”, in fact shows slight cooling.

<http://www.climateaudit.org/?p=7229>

[\[http://www.climateaudit.org/?p=7229\]](http://www.climateaudit.org/?p=7229)

The demonstration links are below: “Combining the CRU and Schweingruber data yields the green line in the 3rd figure above. While it doesn’t go down at the end, neither does it go up, and it yields a medieval era warmer than the present, on the standard interpretation. Thus the key ingredient in the 10 following studies that have been invoked to support the Hockey Stick, namely the Briffa

Yamal series (red line above) depends on the influence of a thin subsample of post-1990 chronologies and the exclusion of the (much larger) collection of readily-available Schweingruber data for the same area: Briffa 2000, Mann and Jones 2003; Bradley, Hughes and Diaz 2003; Jones and Mann 2004; Moberg et al 2005; D'Arrigo et al 2006; Osborn and Briffa 2006; Hegerl et al 2007; Briffa et al 2008; Kaufman et al 2009." All these papers were peer-reviewed and published in prestigious scientific journals... The latest debunk by Steve MacIntyre at climateaudit invalidates the so called "unprecedented" XX century warming shown through dendrochronology proxies (tree rings studies). This includes the Kaufman et al 2009, about the "Arctic being the warmest in the past 1,000 years" reported in the Globe and Mail by Mr. Weber of the Canadian Press...
<http://www.climateaudit.org/?p=7168>
[\[http://www.climateaudit.org/?p=7168\]](http://www.climateaudit.org/?p=7168) The AGW proofs are melting fast too... Perhaps the Canadian Press should pay attention to the great work being done in this country!"
 =====
 September 8, 2009

"Dear Mr. San.

Thank you for contacting The Canadian Press to express your concerns about Bob Weber's story on climate change in the Arctic.

I apologize for the delay in responding to your messages.

We have discussed your concerns with Bob Weber. We're not in a position to say whether Kaufman's previous work was "flawed," and I note that you do not provide evidence to support your contention. Even if you had, we believe that even if Kaufman et al had published flawed studies in the past, that wouldn't necessarily affect the current paper, which was peer-reviewed and published in a highly prestigious journal.

Bob Weber did ask Kaufman about the reliability of the proxies (i.e., tree rings and sediment data used to suggest temperature) and was told they are standard scientific tools that have been in wide use for many years. He also said the protocols for their use have been established by experimental means. In other words, tree rings and sediments have been compared to years for which actual temperature records exist and the relationships between codified empirically. Those relationships are then used to suggest temperatures in times and places for which no records exist.

You also infer that in coming up with a hockey-stick graph, Kaufman simply "rehashes" previous IPCC studies, drawing data from them. Kaufman collected his own data, analyzed it, graphed it and then compared it with the IPCC's hockey stick.

We have taken your concerns so seriously that Weber looked carefully at the climate blog to which you refer and he could find little evidence that Kaufman distorted his findings to conform

to scientific orthodoxy. The blogger teases out specific components of Kaufman's data set and demonstrates that focusing on them yields different results, but surely that is not a surprise. One of the points of Kaufman's research is that it averages different data sources to account for the biases in each.

After a careful review of all of your concerns, we stand behind our story.

Best regards,

HEATHER BOYD
Prairies Bureau Chief"

My complaint then:

Despite my initial complaint 24 hours ago, the story by Bob Weber has not been altered to reflect the reality of the science behind the Kaufman et al. Science 2009 paper described in his article. If this serves as an example of the Canadian Press ethics, what credit can be attributed to reports issued from your institution on domain where my knowledge doesn't allow me to point out the bias? "The Bob Weber The Canadian Press Last updated on Thursday, Sep. 03, 2009 05:11PM EDT A groundbreaking study that traces Arctic temperatures further back than ever before has shown the region is now warmer than at any time in the past 2,000 years... is truly an incomplete description of the state of scientific knowledge in this field. In particular it completely fails to check the co-authors past history of flawed studies, the validity of the proxies and take the PR from Science and the

lead author at face value, despite the existence of a significant amount of peer reviewed literature demonstrating the flaws in the previous studies by IPCC co-authors, rehashed in the Kaufman et al. 2009 paper. A scientific case is built at <http://www.climateaudit.org/?p=6932> [http://www.climateaudit.org/?p=6932] where Mr. Weber could find all the information he needs to amend his article and transform a piece of propaganda into a piece of information."

Oh Canada!



Joe Hunkins posted Sep 29, 2009 at 11:45 PM | Permalink [#comment-195886] | <http://ioeduck.com>

Reply [2009/09/29/the-impact-of-yamal-on-the-spaghetti-graph/?replytocom=195886#respond] Thank you for this introductory outline of the *implications of the many proxy problems for those of us with interest but limited time it's helpful to see things posted in this fashion. It would be nice to see RealClimate address these concerns. No, I don't expect that to happen.

**See -
owe to
Rich**

Posted Sep 30, 2009 at 12:57 AM | Permalink [#comment-195888] | <http://ioeduck.com>

Reply [2009/09/29/the-impact-of-yamal-on-the-spaghetti-graph/?replytocom=195888#respond] Before I had seen any of the positive comments I had determined to post the following:

*I don't know if it's just that I am in a good mood today, but that is the most lucid posting

you have written for a long long while.*

I now echo others' requests to get this into peer reviewed literature somehow (though I know that there are reasons why that is difficult).

Rich.

Ecotretas Sep 30, 2009 at 4:10 AM |

<http://ecotretas.blogspot.com/>

Reply [2009/09/29/the-impact-

I have just checked the page of yamal on the spaghetti- where the raw data is, and it's interesting to see the graph/?

physicists involved with the

different objects on the page. It seems to have happened on Sep, 8th. But what intrigues me Steve is the TayBavRing.raw file; it also seems to be new. Might it also represent something special?

Ecotretas

Tue, 08 Sep 2009 10:38:27

GMT -

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GMT -
<http://www.cru.uea.ac.uk/cru/people/melvin/PhilTra>
[<http://www.cru.uea.ac.uk/cru/people/melvin/PhilTran>:

Ecotretas Sep 30, 2009 at 4:45 AM |
[<http://ecotretas.blogspot.com/>]

Reply [/2009/09/29/the-impact-
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the raw data is, and it's
interesting to see the graph?
reposts involved#response]
different objects on the page. It
seems to have happened on
Sep, 8th. But what intrigues me
Steve is the TayBavRing.raw
file; it also seems to be new.
Might it also represent
something special?

Ecotretas

Tue, 08 Sep 2009 10:38:27
GMT - /
Sat, 21 Apr 2007 07:33:04 GMT
- EurasianGridBox.dat
Thu, 24 Jul 2008 10:29:20 GMT
- Column.prn
Mon, 14 Apr 2008 08:01:00
GMT - RCS_TRW_SSA.xls
Wed, 10 Dec 2008 10:50:18
GMT - TornFinADring.raw
Tue, 08 Sep 2009 10:31:04
GMT - YamalADring.raw
Tue, 08 Sep 2009 10:31:08
GMT - TayBavRing.raw

Stephen

Steve,

What do you make of this
current Briffa research project?
(see

<http://www.cru.uea.ac.uk/cru/research/>)

[<http://www.cru.uea.ac.uk/cru/research/>)] :

Reply [/2009/09/29/the-impact-
Title: The Dendroclimatic
of yamal on the spaghetti-
Divergence Phenomenon:
reassessment of causes and

implications for climate graph/
reconstruction
replyto.com=195892#respond]

Description: Palaeoclimate reconstructions extend our knowledge of how climate varied in times before expansive networks of measuring instruments became available. These reconstructions are founded on an understanding of theoretical and statistically-derived associations acquired by comparing the parallel behaviour of palaeoclimate proxies and measurements of varying climate. Inferences about variations in past climate, based on this understanding, necessarily assume that the associations we observe now hold true throughout the period for which reconstructions are made. This is the essence of the uniformitarian principle. In some northern areas of the world, recent observations of tree growth and measured temperature trends appear to have diverged in recent decades, the so called "divergence" phenomenon. There has been much speculation, and numerous theories proposed, to explain why the previous temperature sensitivity of tree growth in these areas is apparently breaking down. The existence of divergence casts doubt on the uniformitarian assumption that underpins a number of important tree-ring based (dendroclimatic) reconstructions. It suggests that the degree of warmth in certain periods in the past, particularly in medieval times, may be underestimated or at least subject to greater uncertainty than is currently accepted. The lack of a clear overview of this

phenomenon and the lack of a generally accepted cause had led some to challenge the current scientific consensus, represented in the 2007 report of the IPCC on the likely unprecedented nature of late 20th century average hemispheric warmth when viewed in the context of proxy evidence (mostly from trees) for the last 1300 years. This project will seek to systematically reassess and quantify the evidence for divergence in many tree-ring data sets around the Northern Hemisphere. It will establish a much clearer understanding of the nature of the divergence phenomenon, characterising the spatial patterns and temporal evolution. **Based on recent published and unpublished work by the proposers, it has become apparent that foremost amongst the possible explanations is the need to account for systematic bias potentially inherent in the methods used to build many tree-ring chronologies including many that are believed to exhibit this phenomenon.** (my emphasis).

Cutting through the verbiage, do I read this correctly that Professor Briffa has actually secured funding for a project to investigate how his previous work might have been affected by systematic bias?? An impartial bystander might think he could have a vested interest in the outcome...

mjt1st

Re: **Stephen (#42)**
[#comment-357918],

Wow, now thats interesting.
 Posted Sep 30, 2009 at 8:06 AM |
 Permalink [#comment-195898]
 | **Reply** [1/2009/09/29/the-impact-of-yamal-on-the-spaghetti-graph/?replytocom=195898#respond]

There has been much speculation, and numerous theories proposed, to explain why the previous temperature sensitivity of tree growth in these areas is apparently breaking down.

It still appears to be a flawed premise though, ie the sensitivity is breaking down and not the methodology involved in determining the sensitivity.

bender
 Re: **mjt1st (#48)**
[#comment-357950],
 Bridge too far.
 Posted Sep 30, 2009 at 8:31 AM |
 Permalink [#comment-195899]
 | **Reply** [1/2009/09/29/the-impact-of-yamal-on-the-spaghetti-graph/?replytocom=195899#respond]

It's not a flawed premise. Many species from many alpine tree sites have been shown to be (WEAKLY) sensitive to temperature. The correlations, though weak, are too widespread to be a product of random chance alone. The modern breakdown in sensitivity at these cold sites is real. Tree poulations fit

into discrete categories of those that maintain sensitivity (positive responders) and those that are losing it (negative responders): the divergence among samples is real. Briffa's research project on divergence is legitimate.

.
California bcps and Yamal larch appear, to me, to be exhibiting a "loss of sensitivity" (statistical, not biological) due to some other biophysical process that has kicked in to cover up a weak response to modern warming. (Soil warming/permafrost melting are interesting hypotheses.) But this does not invalidate the premise that trees respond to changes in temperature. It simply argues that the nature of the response changes over time. What this would violate is the uniformitarian assumption of dendroclimatology. It does not invalidate dendroclimatology as a whole.

.
To argue categorically that trees do not respond to temperature is

denial.

.
 To argue that tree responses to temperature in the 20th century may be greatly exaggerated in some studies – and that this has important consequences for large-scale temperature reconstructions – is reasonable.

.
 Please try to be reasonable.

mjt1st

Re: **bender**
(#49)

[#comment-357956] |
 Posted Sep 30, 2009 at 11:35 AM |
 Permalink [#comment-195907]
 | **Reply** [/2009/09/29/the-impact-of-yamal-on-the-spaghetti-graph/?replytocom=195907#respond]

Bender, I was not saying the flawed dendroclimatology whether trees are sensitive to temperature or dendroclimatology as a whole is flawed. Nor was I saying that researching the divergence problem is not worthwhile.

Take the following quote...

The existence of divergence casts doubt

on the uniformitarian assumption that underpins a number of important tree-ring based (dendroclimatic) reconstructions.

Divergence does not necessarily refute uniformitarian assumptions, it may only mean that the way temperature sensitivity is determined is inaccurate. In other words, trees are responding to temperature as they always do, the divergence is caused as other factors (such as what you suggested above) influence what is being measured and the methodology used to determine sensitivity does not account for it properly. The divergence problem casts doubt more on

methodology to me than as stated above, unifomitarian assumptions. This tree didn't grow the way I thought it would...is it because its sensitivity changed or because my methodology in determining how it should grow is wrong. Maybe this is just splitting hairs though.

Bridge too Far... good movie 😊

bender

Re:

mit1st (#57)

Posted Sep 30, 2009 at 11:45 AM | Permalink [#comment-195908]

| **Reply** [/2009/09/29/the-impact-of-yamal-on-the-spaghetti-graph/?replytocom=195908#respond]

Splitting hairs, yes, but

nevertheless true. By "uniformity" I meant to imply uniformity in external disturbances as well – which is, agreed, not usually how the dendros use the

term. I appreciate the correction. Sometimes some hairs need to be split. My point stands that stationarity in noise structure is assumed in these models, and it may not hold.

mjt1st

Re:

bender

Posted Sep 30, 2009 at 12:37 (**#58**)

Permalink [[#comment-195909](#)]

Reply [[/2009/09/29/the-](#)

[impact-of-yamal-on-the-](#)

[spaghetti-graph/?](#)

[replyto.com=195909#respond](#)]

My point stands that stationarity in noise structure is assumed in these models, and it may not hold.

Agreed
100%
and
more
specifically
there
doesn't
seem
to
be a
method
to
either
eliminate
or
accept
a
series
as
valid
based
on
that.
I
think
that
this
is
also
the
point
that
is
missed
by
those
who
think
that
picking
a
series
based
on
matching
the
modern
temp
record

is
valid.

henry

Posted Sep 30, 2009 at 6:06 AM |
Permalink [#comment-195893] |
Actually, it appears that he sees
Reply [2009/09/29/the-impact-
of-yamal-on-the-spaghetti-
graph/?
replytocom=195893#respond]
That means a need to scour the
archives, or find new trees that
more accurately mirror the
temps.

The more trees he finds that
have the "uptick", the better.
Then he can use the removal
method, taking out the BCP and
Yamal and STILL show the rise.

He's not trying to find out WHY
they diverge, he's looking for a
replacement...

ianl

Posted Sep 30, 2009 at 6:20 AM |
Permalink [#comment-195894] |
Re: **henry (#43)**
Reply [2009/09/29/the-
impact-of-yamal-on-the-
graph/?
replytocom=195894#respond]
Yes

**Jack
Mott**

Posted Sep 30, 2009 at 7:13 AM |
Permalink [#comment-195896] |
So I understand the arguments
Reply [2009/09/29/the-impact-
of-yamal-on-the-spaghetti-
graph/?
replytocom=195896#respond]
about how the Yamal collapse
can have an effect on all but
two of the reconstructions on
the spaghetti graph. But what
I'm not seeing is the new graph.
Is it not possible to redo those
reconstructions with the yamal
data removed? Do all of them
incorporate the Yamal data?
What of the borehole and
glacier reconstructions?

Furthermore, does anyone else get the feeling that tree ring reconstructions are just useless, and as such what is being found here is simply "we don't know" what temps were before they were being monitored?

That wouldn't really say much about AGW in modern times. There is still ample evidence without pre 20th century data.

bender
 Posted Sep 30, 2009 at 7:23 AM |
 Permalink [[#comment-357938](#)]
 | [Reply](#) [[#comment-357938](#)]
 impact-of-yamal-on-the-spaghetti-graph/?
 replitocom=195897#respond
Is it not possible to redo those reconstructions with the yamal data removed?

If you had all the source data and code for each curve it would be relatively easy. Might take you a day or two. I doubt very much that all the methods behind all the curves have been conveyed in sufficient detail to permit replication. Let's see, it took 10 years for a dozen cores from a single site. At this rate we should be there by ... 5009.

Jack Mott
 Posted Sep 30, 2009 at 9:07 AM |
 Permalink [[#comment-195900](#)]
 | [Reply](#) [[#comment-195900](#)]
 Re: [bender \(#47\)](#) - impact-of-yamal-on-the-spaghetti-graph/?
 replitocom=195900#respond
 Is it known how many of these reconstructions incorporate the yamal data?

Posted Sep 30, 2009 at 9:15 AM |
 Permalink [#comment-195901]
 Re: **Jack Mott (#50)**
 | **Reply** [/2009/09/29/the-impact-of-yamal-on-the-spaghetti-graph/?replytocom=195901#respond]
 Steve has answered this question at least twice in the last 5 days.

Dena

Posted Sep 30, 2009 at 9:52 AM |
 Permalink [#comment-195902] |
 California bcps and Yamal arch appear to me, to be exhibiting a loss of sensitivity (statistical biological) due to some other biophysical process that has kicked in to cover up a weak response to modern warming. (Soil warming/permafrost melting are interesting hypotheses.) But this does not invalidate the premise that trees respond to changes in temperature. It simply argues that the nature of the response changes over time. What this would violate is the uniformitarian assumption of dendroclimatology. It does not invalidate dendroclimatology as a whole. So what is predicted for future climates based on current research?

bender
 Posted Sep 30, 2009 at 9:59 AM |
 Re: **Dena (#52)**
 Permalink [#comment-195903] |
 | **Reply** [/2009/09/29/the-impact-of-yamal-on-the-spaghetti-graph/?replytocom=195903#respond]
 So what is predicted for future climates

based on current
research?

This is ClimateAudit. Not
ForecastCentral.

 **MrPete**
Posted Sep 30, 2009 at 11:30 AM |
Permalink [[#comment-195906](#)]
Re: **Dena (#52)**
| **Reply** [/[2009/09/29/the-impact-of-yamal-on-the-impact-of-yamal-on-the-spaghetti-graph/?#comment-357984](#)],
Tilo Reber (#54)
| [#comment-358009](#)/?
replyto.com=195906#respond]
bender (#55)
| [[#comment-358009](#)],

If the uniformitarian
assumption of
dendroclimatology is
invalidated, then at the
least the CI's for dendro
work grow significantly...
and it becomes a
challenge even to
determine how much they
should grow.

Bender's correct: we
cannot simply dismiss
dendroclimatology as a
science. We can see that a
lot of work is needed to
tighten up our
understanding and the
basic assumptions made.

I don't remember where,
but IIRC there was
previous CA work to
produce a set of CI bands
for dendro proxies. The
ranges were huge.

**Tilo
Reber**

Re: mjt1st (#48)

Posted Sep 30, 2009 at 10:53 AM |
Permalink [[#comment-195904](#)] |
Reply [/[2009/09/29/the-impact-](#)

“To argue categorically that trees do not respond to graph/temperature is denial.”
 replytocom=195904#respond]

No one is arguing that trees don't respond to temperature. The question is, "which ones are responding correctly when"? The idea that the divergence problem is unique to the late 20th century is also a problem. How do we know that this same problem hasn't appeared often in the past. What is the basis for claiming that the divergence is unusual? And why would we assume that the surface temperature record doesn't play at least some part in the divergence.

Posted **bender** Sep 30, 2009 at 11:14 AM |
 Permalink [#comment-195905]
 Re: **Tito Reber (#54)**
 Reply 17/2009/09/29/the-
 impact-of-yamal-on-the-

spaghetti-graph/?
 replytocom=195905#respond]
 No one is arguing that trees don't respond to temperature.

I can point to hundreds of comments where dendroclimatology is dismissed on principle. Even the term "treemometer" – cute as it is – is rightly perceived by dendros as dismissive and derogatory.

.
 As for the rest of the comment: you are preaching to the choir, dude.

Gene L.

[<http://www.climate-science-america.org>]

Posted Sep 30, 2009 at 1:07 PM |

Mr. McIntyre: [comment-195910] |
 Reply [//2009/09/29/the-impact-
 Excellent work digging. What
 of-yamal-on-the-spaghetti-
 patience! I have seen graph/?
 comments elsewhere suggesting
 replytocom=195910#respond]

that one would not need to use
 many, if any, data from trees in
 the current era, but I find that a
 troublesome concept. Living
 trees should help define if a
 relationship between ring data
 and temperatures (for **that**
 locality) are valid. But still one
 would need to use a reasonable
 number of trees to do so, a
 statistically robust sample, not
 just one or two handfuls. Yes? It
 would be like me as an engineer
 certifying that the structure I
 just designed and built with
 concrete is adequate for its
 purposes because one or a few
 specimens of the concrete
 tested within specifications
 (despite the hundreds of
 individual deliveries and
 placements).

I also express wonder at how
 Briffa, Mann, et al., failed to
 explain themselves. If they
 believe some of the trees
 sampled, or some of the series,
 are better/worse than the rest,
 and why the samples/series
 were mixed and matched as
 they were, then why not explain
 it up front? And, why obfuscate,
 delay (and delay and delay and
 ...), use old data archive formats
 and so forth? They've made
themselves look like, ... well,
 like people out to promote a
 preconceived agenda, *even if*
they didn't have one. Very short
 -sighted.

Anyone who has been involved
 in technical and scientific
 disciplines knows (or should)
 that errors and mistakes in
 perception sneak into our best

efforts. Sometimes we get too close to our own work; we become blinded by our thoughts, perceptions and biases. Becoming too close to our on-going work can be illustrated in the way typographical errors creep into a document under construction: we invariably look at it with the sense of what we know we intended to say, rather than what it actually does say. The trick is to be able to step back, sometimes with the help of others — the more independent the better — and look over the work in progress with a healthy self-critical eye. That, of course, does not apply when the construction is intended to deceive or cloud an issue...


cmb

Quick question: how come when we eliminate all proxies, and only use instrumental temperature records, we still get a cut-off hockey stick? Why all the quibbling over the shaft, when the blade shows the AGW phenomenon?

Posted Sep 30, 2009 at 2:07 PM |
 Permalink [#comment=195912] |
 Reply [2009/09/29/the-impact-of-yamal-on-the-spaghetti-graph?replytocom=195912#respond]

MrPete

Re: **cmb (#62)**

 [#comment=358053]
 Posted Sep 29, 2009 at 8:59 PM |
 Permalink [#comment=195913] |
 Reply [2009/09/29/the-impact-of-yamal-on-the-spaghetti-graph?replytocom=195913#respond]

whether it has warmed in recent years, but whether this is anything out of the ordinary.

If the MWP (Medieval Warm Period) and LIA (Little Ice Age) were real and significant, then today's warming may not be anything special.

Translation: a hockey stick with no shaft is no hockey stick at all.

TinyCO2

Posted Sep 30, 2009 at 2:57 PM |

Permalink [[#Re: Mr Pete \(195916\)](#)]

| [Reply](#) [[#2009/09/29/the-impact-of-yamal-on-the-spaghetti-graph/?replytocom=195916#respond](#)]

[358055](#)]

The AGW

question is not whether it has warmed in recent years, but whether this is anything out of the ordinary.

If the MWP (Medieval Warm Period) and LIA (Little Ice Age) were real and significant, then today's warming may not be anything special.

Translation: a hockey stick with no shaft is no hockey stick at all.

Is it not more significant than that?

Weren't the climate models 'proved' by being able to hind

cast the past climate? If the reconstructions of past climate are flawed, what does that say about the models that manage to match them?

Or do they not hind cast that far back? If not why not?

May I add my congratulations for the brilliant work done here.

Patrik

Posted Sep 30, 2009 at 2:22 PM |
Permalink [#comment-195914] |
cmb>> Because pre-industrial
Reply [/2009/09/29/the-impact-

of-yamal-on-the-spaghetti-
graph/?

replytocom=195914#respond]

Richard

Posted Sep 30, 2009 at 2:24 PM |
Permalink [#comment-195915] |
http://wattsupwiththat.com/2009/09/29/leading

uk-climate-scientists-must-
explain-or-resign/#comment-
-195914] graph/?

replytocom=195915#respond]
(Edited for correction and
correct placement)

Jim Carson
(07:55:14) :
Although I think Steve
is the 21st-century
equivalent of Norman
Borlaug, he is
notoriously inept at
showing us the Big
Picture before
relentlessly hammering
away at the details.
He's even managed to
confuse Jennifer
Marohasy, in addition
to TomP.

It seems clear to me now [someone correct me if I'm wrong] that Steve's hypothesis is that the Yamal data is BIASED. And to test his hypothesis, he REMOVED the data he suspected of bias. And for good and valid mathematical reasons, he substituted some data that was NOT suspected of bias.

Well let me correct you because I think you are absolutely wrong.

From my high school science I know that a Random Experiment, (which is based on statistical principles), is an experiment, that can be repeated numerous times under the same conditions. The outcome of an individual random experiment must be independent and identically distributed. It must in no way be affected by any previous outcome and cannot be predicted with certainty.

The analogy that you have given is erroneous.

In this case the experiment has already been conducted and the results (data) collected. (It does not have to be repeated as in your analogy). Now we have to see what the results indicate without prejudging the outcome.

In Briffa's case the data was carefully selected to agree with a specific outcome, which goes against the grain of the scientific method and statistics.

The second graph indeed is the one that excludes the 12 cherry-picked Briffa Yamal trees and demonstrates the bias.

But the last graph that Steve gives is the one that contains all the data. That illustrates a graph that seems to correlate with modern temperature data, BUT gives a medieval warm period warmer than the present AND does not demonstrate a hockey-stick pattern to show stable temperatures in the past 2,000 years.

confused

Posted Sep 30, 2009 at 3:47 PM |

Permalink: [#comment-1959171]

I'm a little confused. Is the hockey stick predominately of yamal or the spiking of yamal on the spiking of the data, or due to the mathematical methods used to enhance the signal to noise ratio as explained by others, or both?

TAG


Posted Sep 30, 2009 at 5:50 PM |

Permalink: [#comment-1959181]

Something that everyone should take note of is that the failure of these proxy reconstruction efforts is not good news. The implications of AGW could be very serious and will require very important decisions that have very serious consequences if they fail. The failure of the proxy reconstruction science will mean that the decisions makes will face more uncertainty in making these decisions. This is not good news.

The work reported here is very important since it means the decision makers will not be relying on findings that are without merit. However it is unfortunate that the proxy

reconstructions can not be made to work.

 **Steve Stratos** Sep 30, 2009 at 9:47 PM |
<http://www.stratosphere.com> [195920] |
 Reply [2009/09/29/the-impact-of-yamal-on-the-spaghetti-graph/?replytocom=195920#respond]

You have been a beacon of the scientific method in a sea of short cuts and shading the truth. I understand (but do not support) your efforts to keep this debate at a scientific level and not disparage without evidence.

But there comes a time when the scientific method needs to be saved from the charlatans and abusers. These people cherry picked data so they could consume vast amounts of research money. They have relegated themselves to holier than thou insights, discarding the scientific method and hiding data they knew to challenge their own Nobel Prize winning arguments.

They spread a cancer into the science you hold dear. Yet, you hold back and do not demand of them the same rigor you applied to their own dodgy claims. You need to understand that humanity, in all its glorious naiveté to science does want charismatic leaders with bold decision points clearly articulated.

The peer review process is dead and gone and useless. You have earned the right to shine a spotlight on this fact. You have fought those who abused it to push agendas and false results. It is time you supported a

chorus of outrage at this fiction. We may not articulate the details well, but there are a lot of people simply angered over the duplicity, who need help articulating the dishonesty here.

My hat is off to you sir. I am late to this debate and stand in awe of your 9 years of beating your head against these false results. It has been a heroic effort.

Bill

Perhaps this is a little OT – but
 Posted the case 2009/09/29 for AGW to
 be nasty # the amplifying [195921] |
 Reply [195921] # the amplifying [195921] |
 "feedbacks" (by 2009/09/29/vepon and
 others), have to kick in much as
 specified in those GCM models?
 Even a doubling of CO2
 produces only about a 1-1.2 C
 temperature increase directly –
 which seems to be
 uncontroversial.

But if it was just as warm in the MWP, (and the Roman period, and the Holocene Optimun), then temperatures must have risen into those periods – to a similar extent as they have the past 150 years. If the "feedbacks" are real why didnt they kick in in the past? They seem to have had several good oppurtunities to do so.

It seems to me that the MWP et al, (if valid), are strong evidence, (not definitive, but fairly strong), that the "feedbacks" do not actually happen. Is that why the "Team" keeps making statistically desperate attempts to pump out one "hockey stick" after another??

Perhaps better informed people than me might like to comment on that?

(I am only an occasional visitor to CA but I also want to add my congratulations to Steve – he has been a great servant of science – whichever side is ultimately right).

Lorax

Hi all,
Posted Sep 30, 2009 at 10:51 PM |

Permalink [#comment-195922] |
OK, so I'm feeling stupid.

Reply [1/2009/09/29/the-impact-
Looking at the graph that

Steve did using the spaghetti-
'correct' (non cherry picked
data) the temperature

reconstruction (shown in the
graph in the UK Telegraph link)

seems to be the same until the
20th century or so. The

instrumented record then shows
warming (yes I am aware of
homogeneity problems).

However, the black trace on the
chart is almost the same as the
alleged faulty reconstruction,

but diverges in the 20th century
(when it shows a marked
downward trend) when even we

skeptics agree that it has
warmed notably. If anything
this graph seems to indicate

that medieval warm period was
not warmer than the late 20th
century and that rather

something odd (or wrong) going
on with the reconstructions for
the medieval warm period,


something odd seems to be
going on with the reconstruction
in the 20th century with the

new analysis b/c the trend is
opposite to that derived from
the observed SAT record. These
data seem to suggest that we

have cooled in the last 100 or
so years? What am I missing
here? Perhaps it is the scale and

units. Why not plot the “correct” temperature reconstruction using the same scale and units as what Mann et al. (and others) used? That would help us all place this new construction in context of previous proxy work and SAT observations since circa 1880. Thanks.

MrPete


 Re: **Lorax (#76)**
 Posted Oct 1, 2009 at 3:43 AM |
[Permalink](#) [[#comment-3581501](#)]
 | **Matt Buckels (#77)**
 Reply 1/2009/09/29/the-
[impact-of-yamal-on-the-](#)
[spaghetti-graph/?](#)
[repytocom=195924#respond](#)
 While Steve has reproduced one of the temperature “hockey stick” reconstruction graphs in the first figure above, the rest of the graphs involved in this whole Briffa kerfuffle are NOT temperature reconstructions. They are unitless depictions of some of the data that gets folded into said reconstructions.

Those who claim disclosure of these errors provides definitive proof of anything about AGW are completely missing the point.

Matt, you are correct:

The point is that this kind of dendroclimatology research is subject to far more uncertainty than some scientists would have us believe. Unfortunately, these tree ring studies have proven incurably addictive to the most widely promoted

(self-described "Hockey Team") climate scientists.

It is quite possible to do better science than to use discredited data and invalid statistical analysis techniques. Sadly, the Team doesn't like to go there. Here at CA we try hard to avoid imputing motives to such activity, even though the Team generates its own PR about motivation.

We try to stick to the science. And that's why it is here you will find those who have created a temperature reconstruction that completely avoids tree ring studies. No, not Steve.

Search Climate Audit for Craig Loehle's work (and the auditing of his work that took place here.) You'll find good statistics, review by statisticians, and a reconstruction refreshingly free of tree rings.

My sadness is that Craig's work is among the very few that aspires to a higher standard. If we remove studies that make use of tree rings from the first figure in the original post above, there's not much to look at.

We all enjoy the nice line graphs. But perhaps other kinds of data would be more valuable for future analysis. I myself am curious about arctic treeline efforts.

Has anyone discovered a way to map historical arctic treeline trends in such a way that an historical temperature proxy can be produced?

Matt Buckels

Posted Oct 1, 2009 at 1:50 AM |
Permalink [#comment-195923] |

Reply [2009/09/29/the-impact-of-yamal-on-the-spaghetti-graph/?replytocom=195923#respond1]
If, on one mind, what may be a seemingly obvious question – As a non-skeptic, but generally a skeptical person, I must admit, I find this very interesting. I have some very well qualified mates and about a year ago I ran a survey about climate change and certainly amongst those with genuine academic credentials there were some concerns raised about some of the statistical methods used in climate science...

But anyway that is beside the question, which is this:

While these Climate Audit findings are being used by many to discredit the hockey stick, lay the boot in to “the team” etc, is the key scientific conclusion that if a larger sample of trees gives a result that is in direct conflict with the known recent instrumental temperature record then in fact the whole concept of reconstructing temperatures using tree cores has to be questioned, and in fact the temperature reconstructions that appear in the first figure of this post that show that “today” is warmer than the past, are in fact not reliable temperature reconstructions?

Sorry if it sounds simple, but I’m just trying to be clear on

the actual scientific ramifications rather than just the questions about the integrity of Biffra and other climate scientists.

Apologies if I've completely missed the point:)

Freddy
 Posted Oct 2, 2009 at 4:00 AM |
 Permalink [#comment-195927]
 Re: **Matt Buckels (#77)**
 Reply [/2009/09/29/the-impact-of-yamal-on-the-impact-of-yamal-on-the-spaghetti-graph/?replytocom=195927#respond]

is the key scientific conclusion ... the temperature reconstructions that appear in the first figure of this post that show that "today" is warmer than the past, are in fact not reliable temperature reconstructions?

Correct.

Brooks Hurd
 Posted Oct 2, 2009 at 2:32 PM |
 Permalink [#comment-195928] |
 Reply [/2009/09/29/the-impact-of-yamal-on-the-spaghetti-graph/?replytocom=195928#respond]

Nice explanation of what is the key scientific conclusion ... the temperature reconstructions that appear in the first figure of this post that show that "today" is warmer than the past, are in fact not reliable temperature reconstructions?

Barclay E MacDonal
 Posted Sep 29, 2009 at 4:13 PM |
 Permalink [#comment-195874] |
 Reply [**The Climate is Changing - Musings of the Technical Bard (#25)** [#comment-357823]]

Don't be too hopeful. I was foolishly drawing the same conclusion at least as

far back as February 2006.
Here's Steve's then quote,

"I find it extremely objectionable that there was never any formal report on the Polar Urals Update. The Esper version here is the first direct evidence of Hockey Team knowledge of this. In speculative mining businesses, if you have new drill results that change the understanding of an ore body, you have to publish them. Why the hell didn't Briffa have to publish the updated Polar Urals results, given the big splash that he'd made in Nature about the coldest year of the millennium? It was even mentioned in IPCC 1995."

See Steve Mosher's link in 23 above. We are all still waiting. Optimism can be an evanescent thing.

8 Trackbacks

1. By **The Climate is Changing « Musings of the Technical Bard**
[<http://www.technicalbard.com/archives/438>]
on Sep 29, 2009 at 3:05 PM
[...] today, I find the (hopefully) final nail in the Hockey Stick over at Climate [...]
2. By **Outcomes, Not Intentions » Blog Archive » AGW Alarmists Release New Scare Tool Just Days After Skeptic Discredits Their Source Data**
[<http://monco.blogetery.com/2009/09/29/agw-alarmists-release-new-scare-tool-just-days-after-skeptic-discredits-their-source-data/>]
on Sep 29, 2009 at 11:09 PM
[...] was huge news in the AGW-skeptic world as Canadian Steve McIntyre of ClimateAudit finally

got hold of the tree ring data US climatologist Michael Mann used to produce the infamous [...]

3. By **"Palo de hockey": los principales científicos climáticos británicos deben explicarse o dimitir** « **PlazaMoyua.org**

[<http://plazamoyua.wordpress.com/2009/09/30/palo-de-hockey-los-principales-cientificos-climaticos-britanicos-deben-explicarse-o-dimitir/>] on Sep 30, 2009 at 12:23 AM

[...] There are not really 10 "independent" groups, as "independence" is understood in the real world. Mann and Jones 2003 is not independent of Mann, Bradley and Hughes (1998) or Jones (Briffa) et al 1998 or Rutherford et al 2005 (Mann, Osborn, Bradley, Briffa, Hughes and Jones). [-->] [...]

4. By **Peer-reviewed article in journal Science says sun causes global warming** « **Wintery Knight Blog**

[<http://winteryknight.wordpress.com/2009/09/30/peer-reviewed-article-in-journal-science-says-sun-causes-global-warming/>] on Sep 30, 2009 at 6:13 PM

[...] Climate Audit: The impact of the hockey stick hoax on the "spaghetti graph" [...]

5. By **La strana etica degli anti-eretici | Climate Monitor**

[<http://www.climatemonitor.it/?p=4325>] on Oct 1, 2009 at 7:25 AM

[...] tutto il dibattito sul clima degli ultimi anni, può dare un'occhiata a quest'altro post di McIntyre, dove spiega come questo sparuto e cherry

picked dataset sia dietro quasi tutte le [...]

6. By **Palo de hockey: la medio respuesta de Briffa. « PlazaMoyua.org**

[<http://plazamoyua.wordpress.com/2009/10/02/palo-de-hockey-la-medio-respuesta-de-briffa/>] on Oct 2, 2009 at 12:24 AM

[...] The Impact of Yamal on the Spaghetti Graph [...]

7. By **Climate Audit | The Ruthless Truth blog**

[<http://theruthlesstruth.com/wordpress/2009/10/19/climate-audit/>] on Oct 19, 2009 at 9:30 PM

[...] I've observed on a number of occasions that the difference between Polar Urals and Yamal is, by itself, material to most of the non-bristlecone reconstructions that supposedly "support" the Hockey Stick. For example, in June 2006, I showed the direct impact of a simple sensitivity study using Polar Urals versus Yamal – an issue also recently discussed here. [...]

8. By **Kylmää vettä MOT:n niskaan « Gaia**

[<http://planeetta.wordpress.com/2009/11/09/kylmaavetta-motn-niskaan/>] on Nov 8, 2009 at 10:35 PM

[...]

<http://www.climateaudit.org/?p=7229>

[<http://www.climateaudit.org/?p=7229>] [...]

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