



AND



**So, where's the HOPE in
"Climate Change" ?**

**"Climate change is the most
consequential, urgent,
sweeping collection of
challenges we face."**

-- Hillary Clinton

"Confronting climate change is, in the long run, one of the greatest challenges that we face."

-- John Kerry

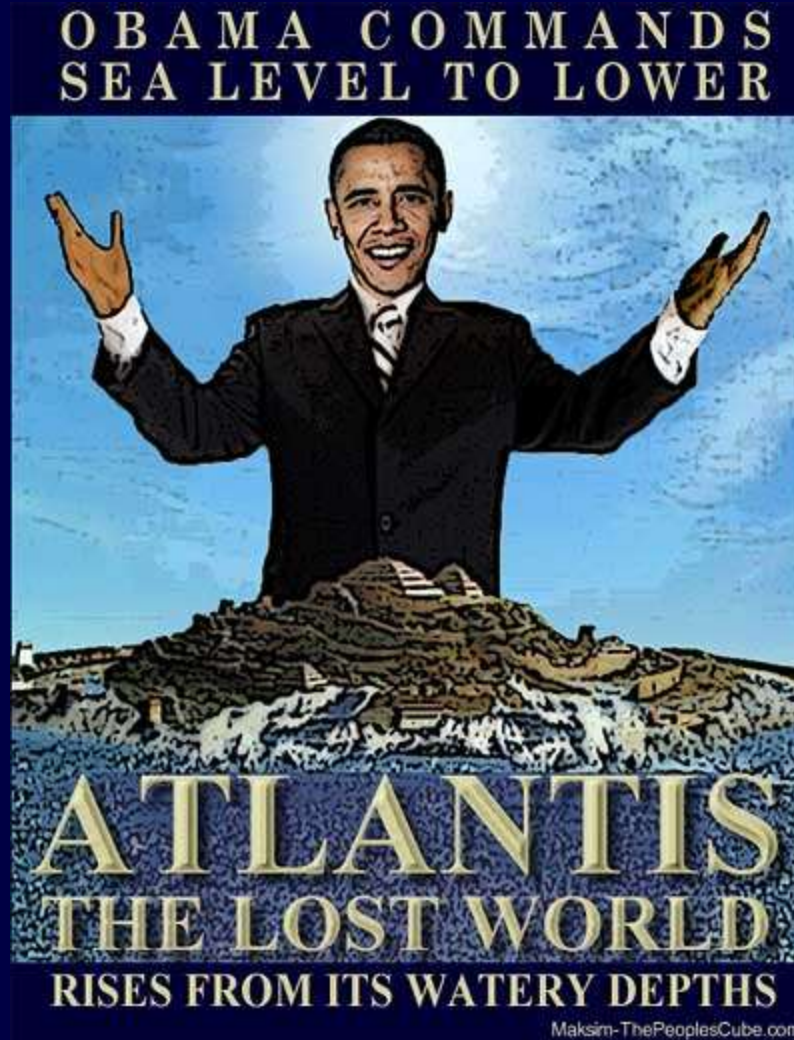
"Climate change represents one of the major challenges of the 21st century"

-- Barack Obama

**So they all have the same
speech therapist.**

**But, what can these guys
HOPE to CHANGE ?**

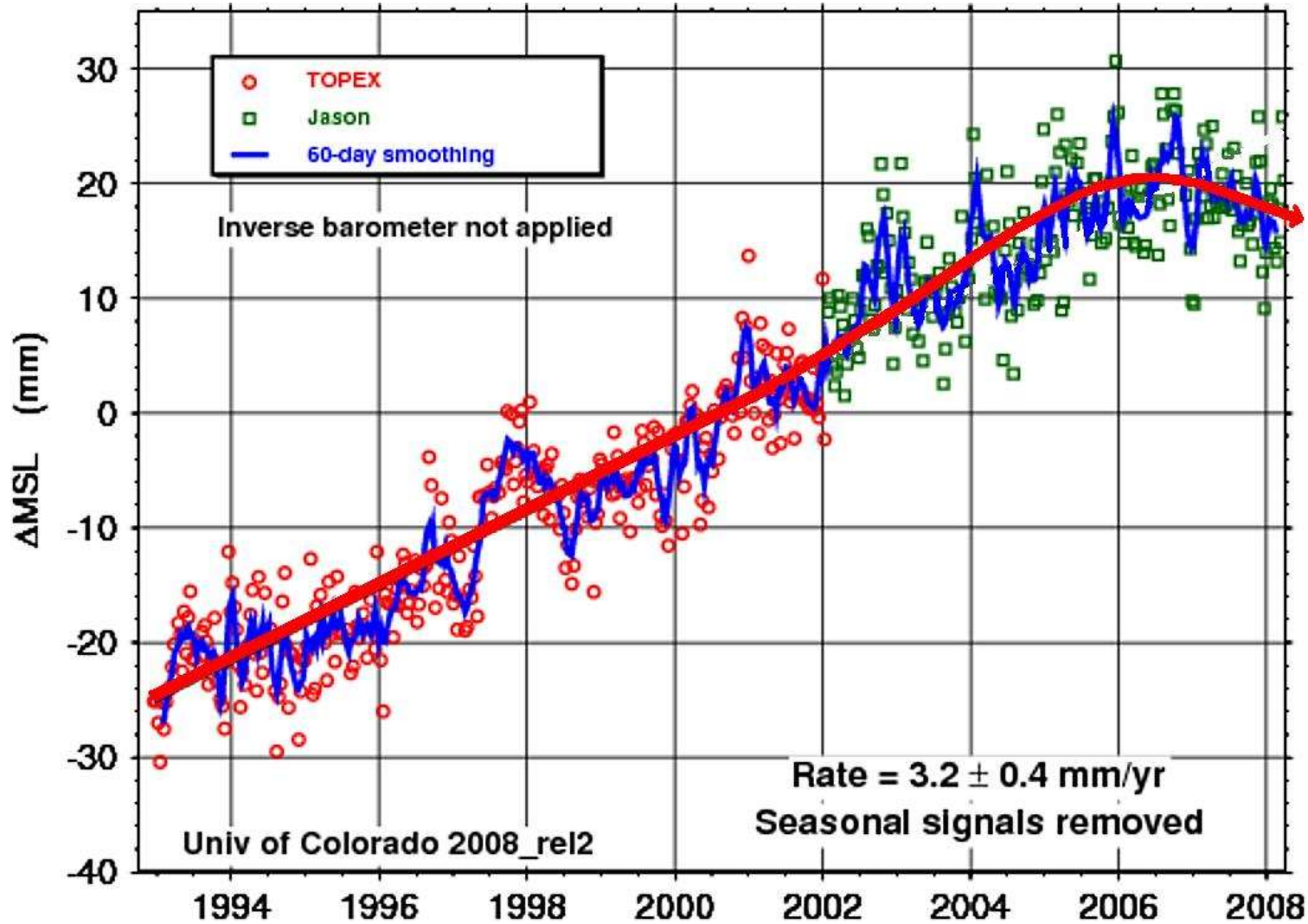
Can he lower the seas ?



“I am absolutely certain that generations from now, we will be able to look back and tell our children that this was the moment when the rise of the oceans began to slow and our planet began to heal.”

- Barack Obama, June 3, 2008

No need to. Been done ...



Since 2000 AD ...
Temperatures have fallen
US CO₂ emissions have diminished
Sea level rise has slowed
The planet began to heal

Thanks to President George W. Bush,
who did



NOTHING

(he was busy with more important stuff)

Another case where doing nothing is the best
policy

Climate Dysfunction: The Facts of Global Warming. Political Science or Science Fiction ?

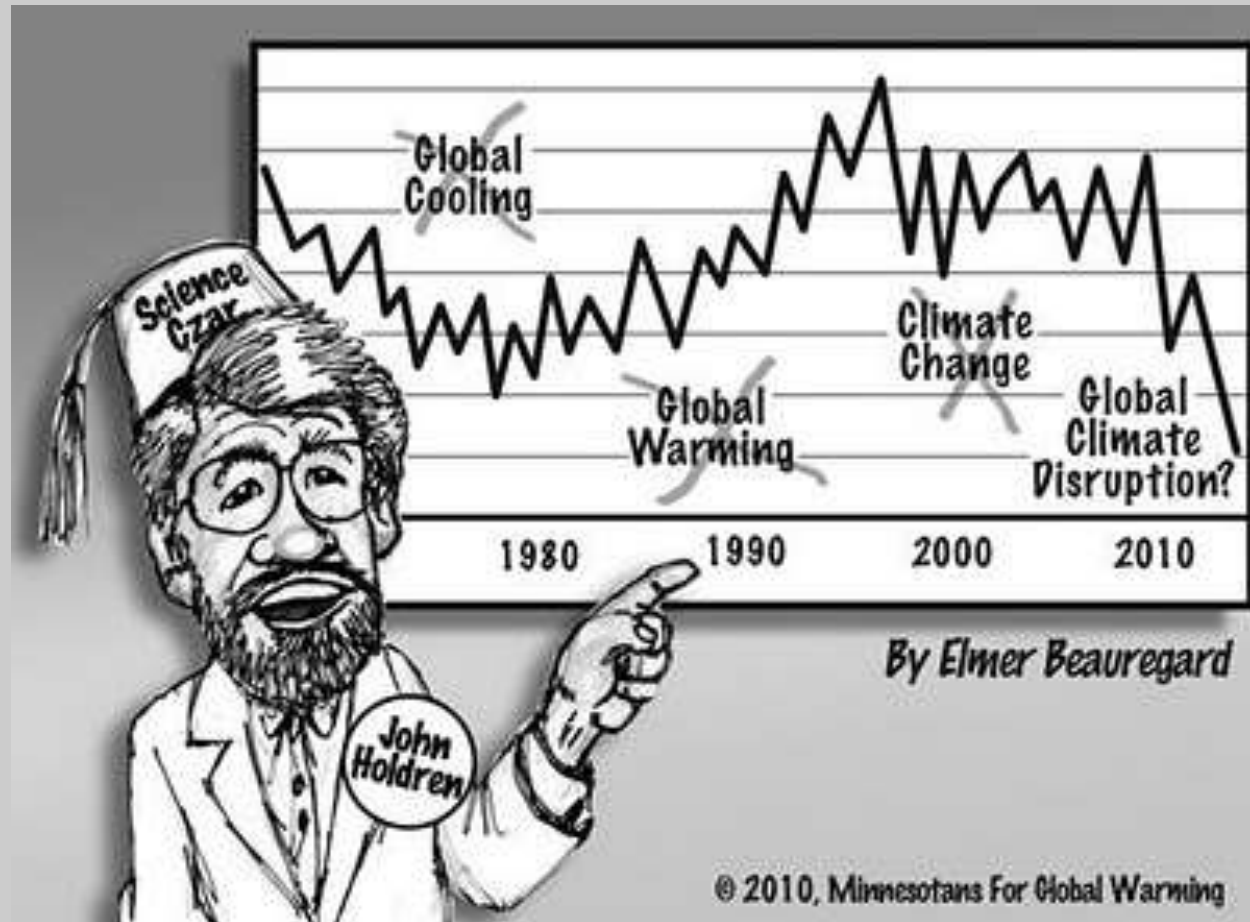
Dr. Richard A. Keen

**University of Colorado,
Boulder (Emeritus/Ret.)**

**Weather observer,
Coal Creek Canyon, CO**

richard2keen@gmail.com

**Pre-dawn breakfast
Greeley, CO
September 2014**



**My thoughts on climate are tainted
by my background as a...**

Climate researcher

Astronomer

Reporter & Author

Teacher

Photographer

Mountaineer & Glaciologist

Snow shoveler

Storm chaser

Army Met guy

Weather observer

Weather “historian”

Talking Head

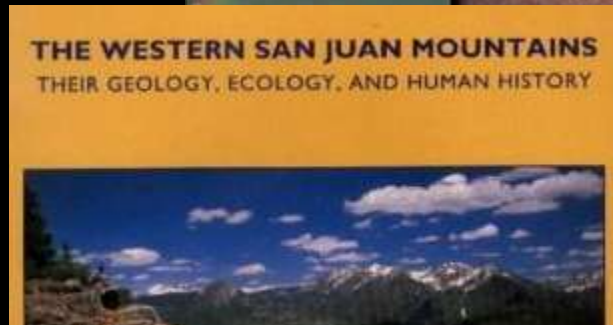
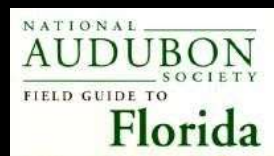
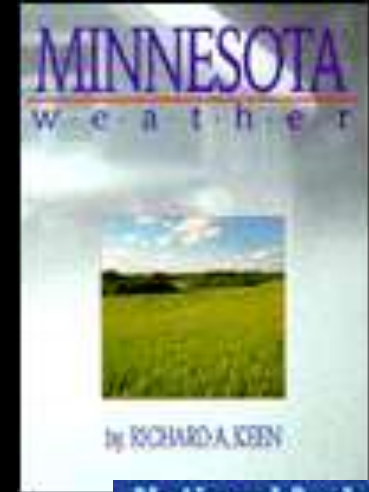
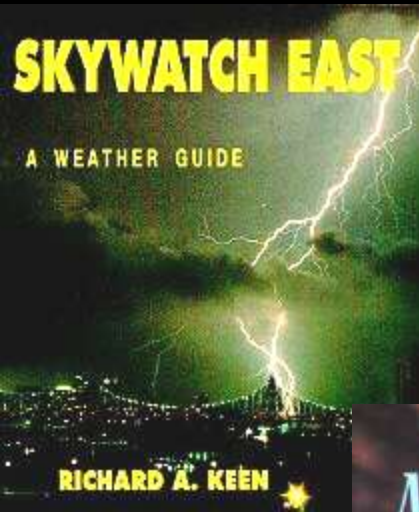
IPCC WG1 AR5 Expert Reviewer

Taxpayer

**I’ve also done some climate modeling,
but that was in my reckless youth.**



I write books, too. About weather.



Talking Head credit:
The boy who cried warming
<http://vimeo.com/47182591>



FILM

THE BOY WHO CRIED

WARMING

GLOBAL WARMING INITIATIVE.COM

GLOBAL WARMING INITIATIVE PRESENTS THE BOY WHO CRIED WARMING
DIRECTED BY PETE GARCIA II EXECUTIVE PRODUCERS DEYVIS MARTINEZ
PRODUCED BY PETE GARCIA II, JESSE JONES, DEYVIS MARTINEZ
EXECUTIVE PRODUCERS CHARLES F. VIRGIN, DONALD C. PARKER
SCREENPLAY BY JESSE JONES AND PETE GARCIA II
WRITTEN BY JESSE JONES AND WILLIAM RICH
ORIGINAL BY ENVIRONMENT GRAPHICS POST PRODUCTION BY PART OF INC.

NR THIS FILM HAS NOT YET BEEN RATED



**And a PhD thesis about climate change in the Arctic.
Conclusion: jet stream winds and storm tracks are the major factors.**

**TEMPERATURE AND CIRCULATION ANOMALIES
IN THE EASTERN CANADIAN ARCTIC
SUMMER 1946-76**

Richard A. Keen



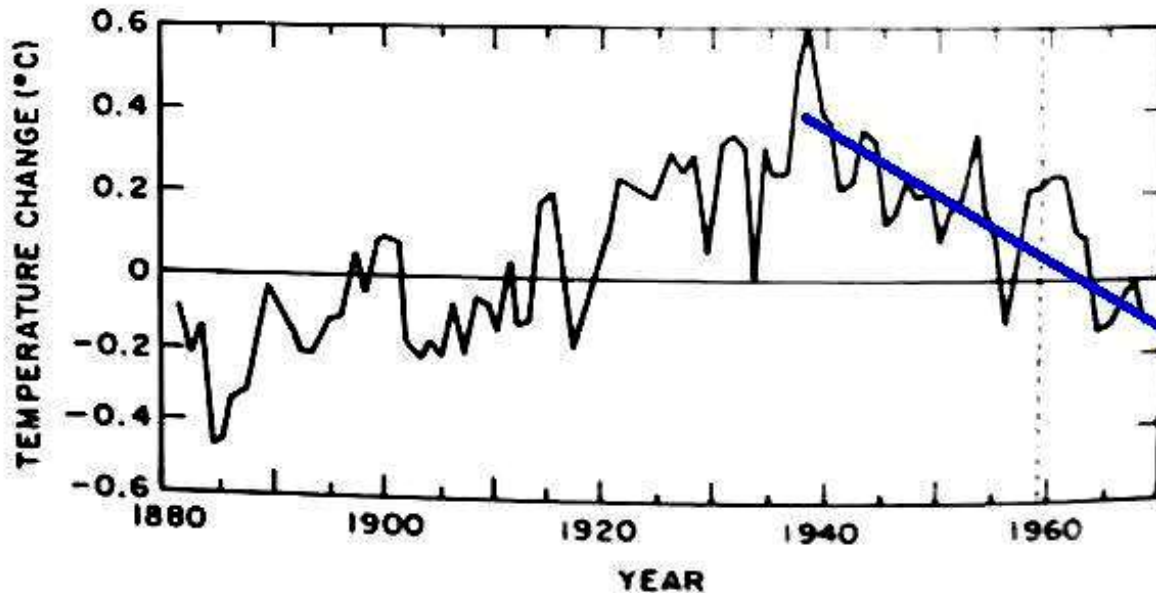
**Occasional Paper No. 34
1980**

INSTITUTE OF ARCTIC AND ALPINE RESEARCH • UNIVERSITY OF CALIFORNIA



**When I wrote that Ph.D. thesis,
a new ice age seemed a possibility
(by some scientists, including current “warmers”
and the media).**

Global Temperatures
(from Budyko & Asakura)



**Of course, the ice age was going to
be caused by humans.**

30 December 1976

737



**The ice age did not
occur, so we still
have Chicago and
Moscow.**

**Now it's Global
Warming, a.k.a.
"Climate change"
etc. we're looking
for.**



The Art of Detection: How do you measure Global Warming ?

**Dr. Richard Keen
U. of Colorado, Emeritus**

richard2keen@gmail.com

richard.keen@colorado.edu

**Weather watcher since
Hurricane Hazel 1954**

NWS co-op observer 30+ years

**Content not approved by any
funding agency, big oil, bigger
academia, biggest government, my
congress-person (CO-2), my cat, etc.**

What are we trying to measure ?

Let's grab 10,000 molecules of air.

**Since 1800, humans have added
ONE (1) CO₂ molecule.**

Radiative greenhouse theory gives

Anthropogenic Global Warming AGW of

0.2°C

**compared to 33°C existing greenhouse
effect, due mostly to 100 H₂O molecules.**

Some say it's larger due to H₂O feedbacks.

Can we measure 0.2°C AGW* ?

**Millions of thermometer readings
at thousands of weather stations
can be used to seek AGW**

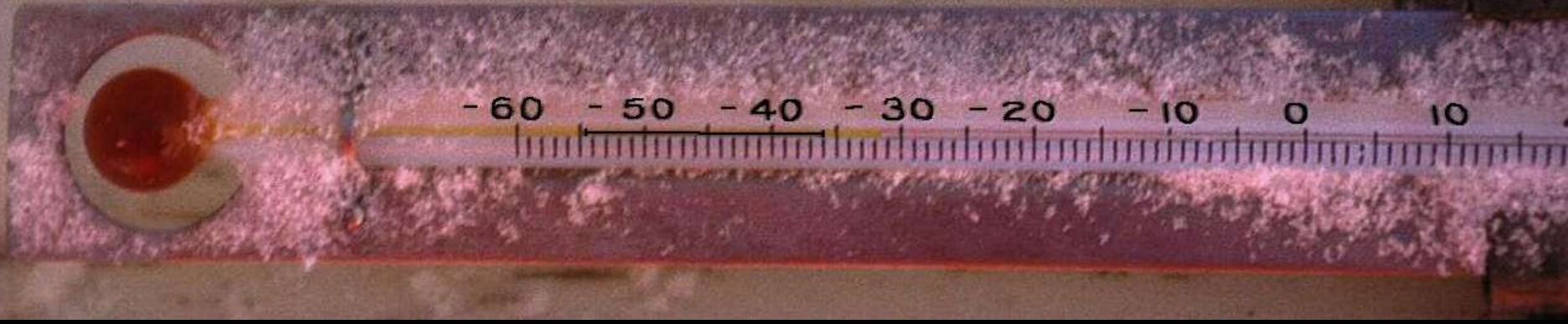
**AGW is NOT measured by polar bear parts,
glaciers, hurricanes, sinking isles of guano,
federal grants, mutant frogs, or Obama
telling us it's real.**

*** AGW = Anthropogenic Global Warming**

What are the limitations of weather station thermometer readings?

- 1. Thermometer accuracy**
- 2. Siting & exposure**
- 3. Adjustments/homogenization**
- 4. Poor coverage of the globe**

1. Accuracy:



Meteorological thermometers are calibrated and scaled to ± 1 F or 0.5°C

Shelter color & maintenance can affect readings, too.

(Sutter's Mill, CA – closed)





2. Siting - urban, exposure, station changes, etc. (Watts)



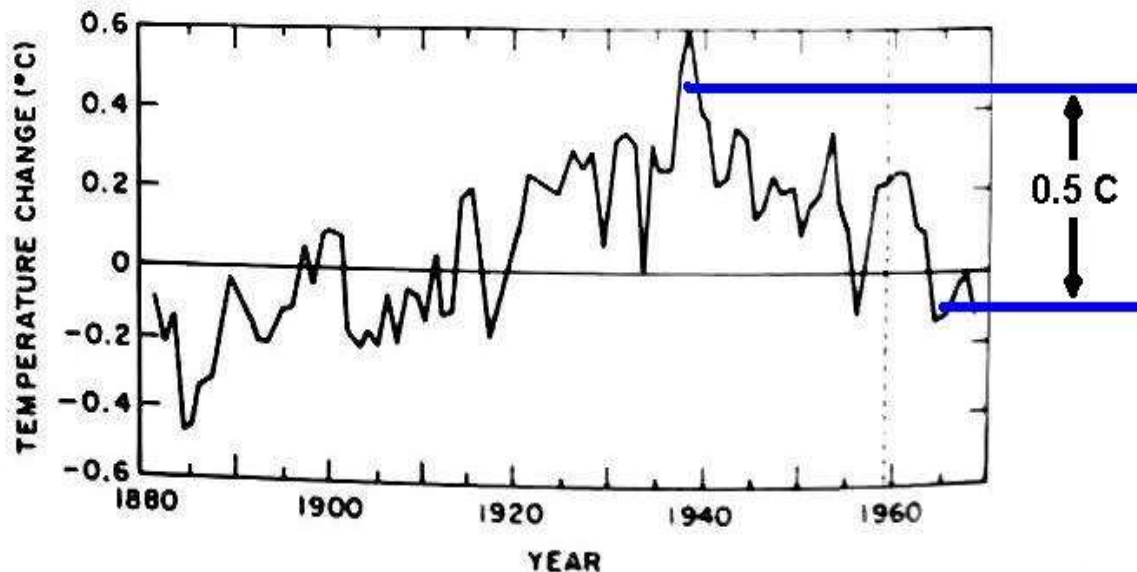
3. Adjustments and homogenization - until data fits theory

**“It is a capital mistake to
theorize before one has data.
Insensibly one begins to twist
facts to suit theories, instead of
theories to suit facts.”**

**—Sherlock Holmes
(Arthur Conan Doyle)**



Global Temperatures
(from Budyko & Asakura)



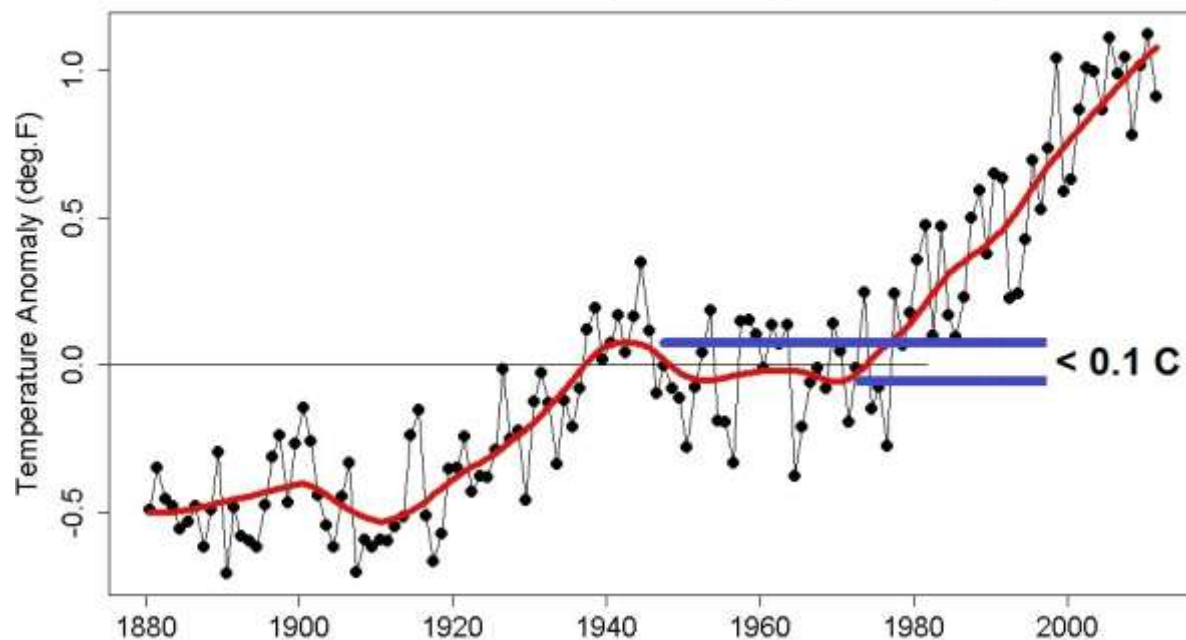
The Dust Bowl years.

Version 1975 (top)

Version 2012 (bottom)

**Inconvenient events:
1960's "Micro Ice Age"
1930's "Dust Bowl Max"
are reduced to minor
blips.**

Global Temperature (NASA 2012)



**How do they rewrite
climate history?**

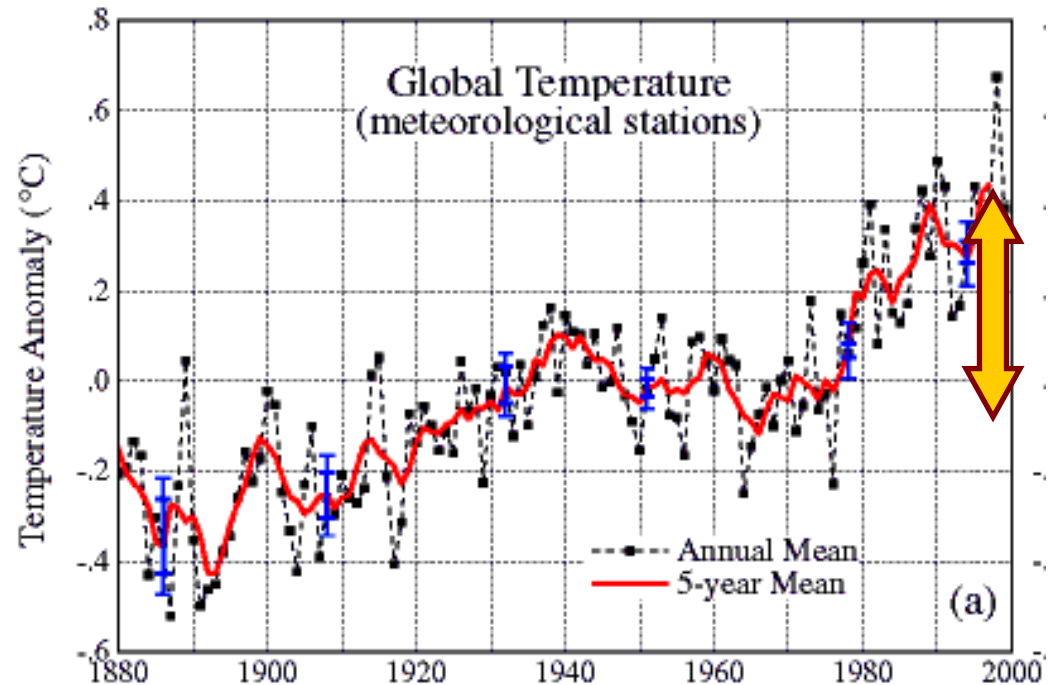
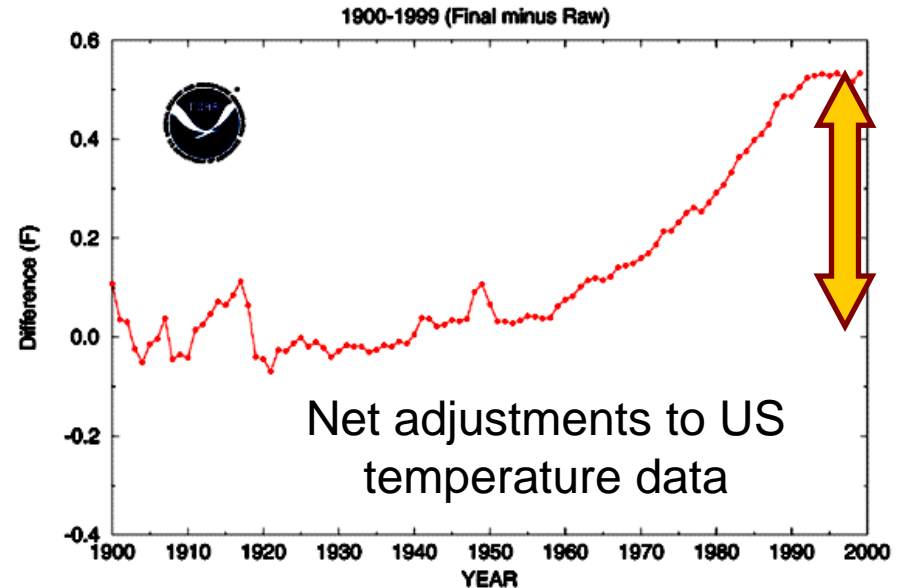
“Correcting” the data.

Curiously,

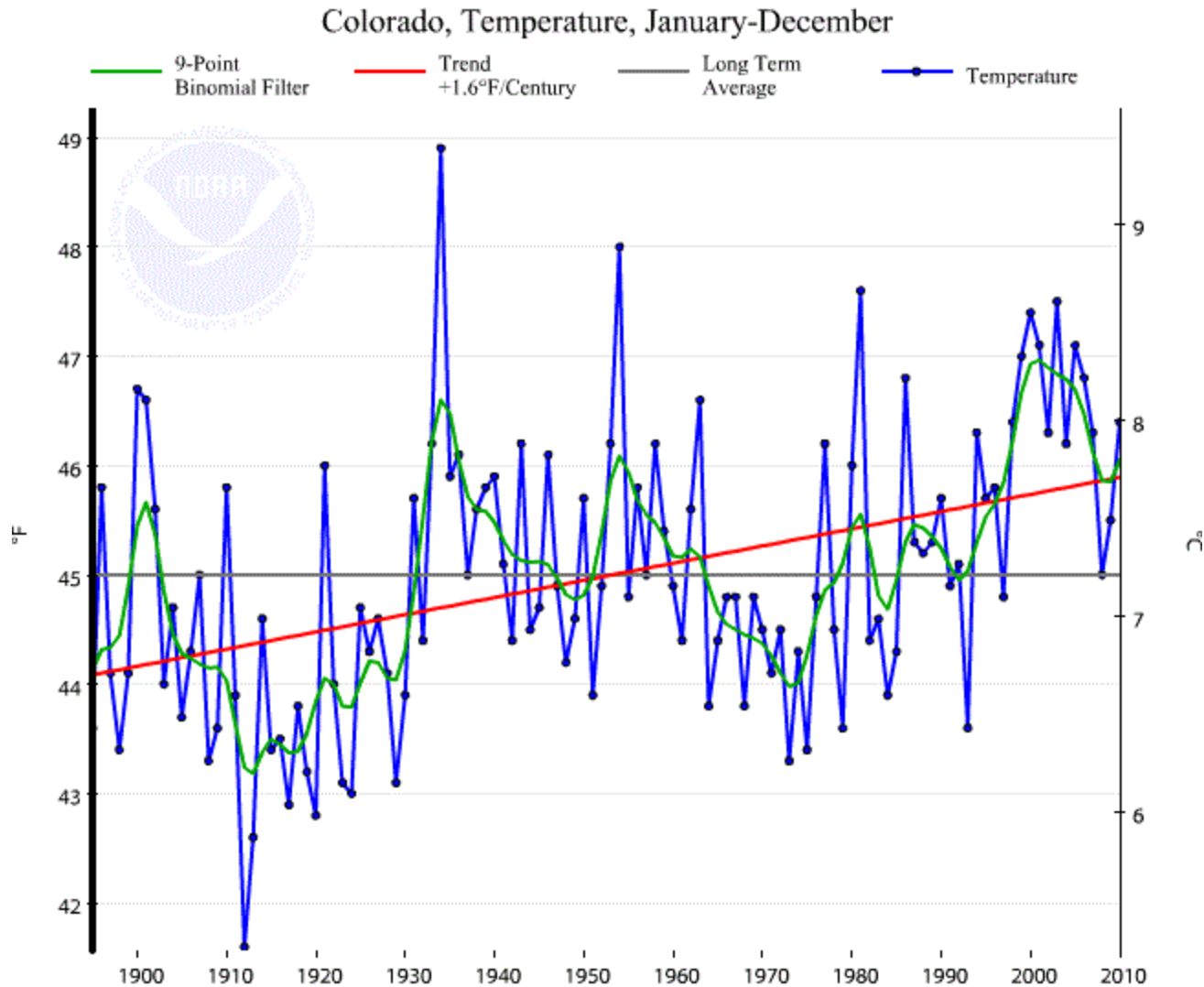
the 0.4°C / 0.7°F

**“warming” between
1950 and 2000 equals
upward “adjustments”
to the data !!!**

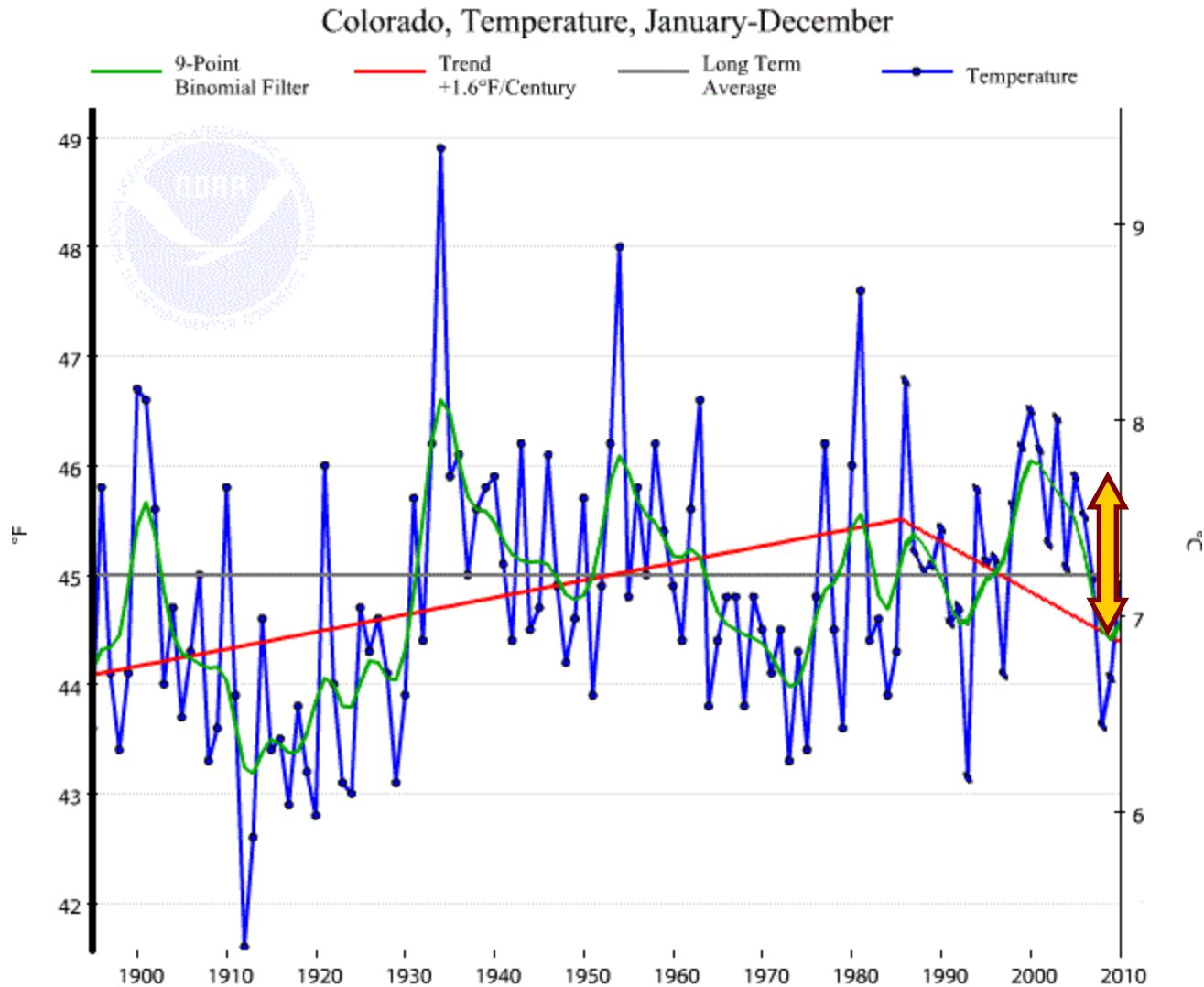
DIFFERENCE BETWEEN RAW AND FINAL USHCN DATA SETS



Removing those “corrections” changes the story.



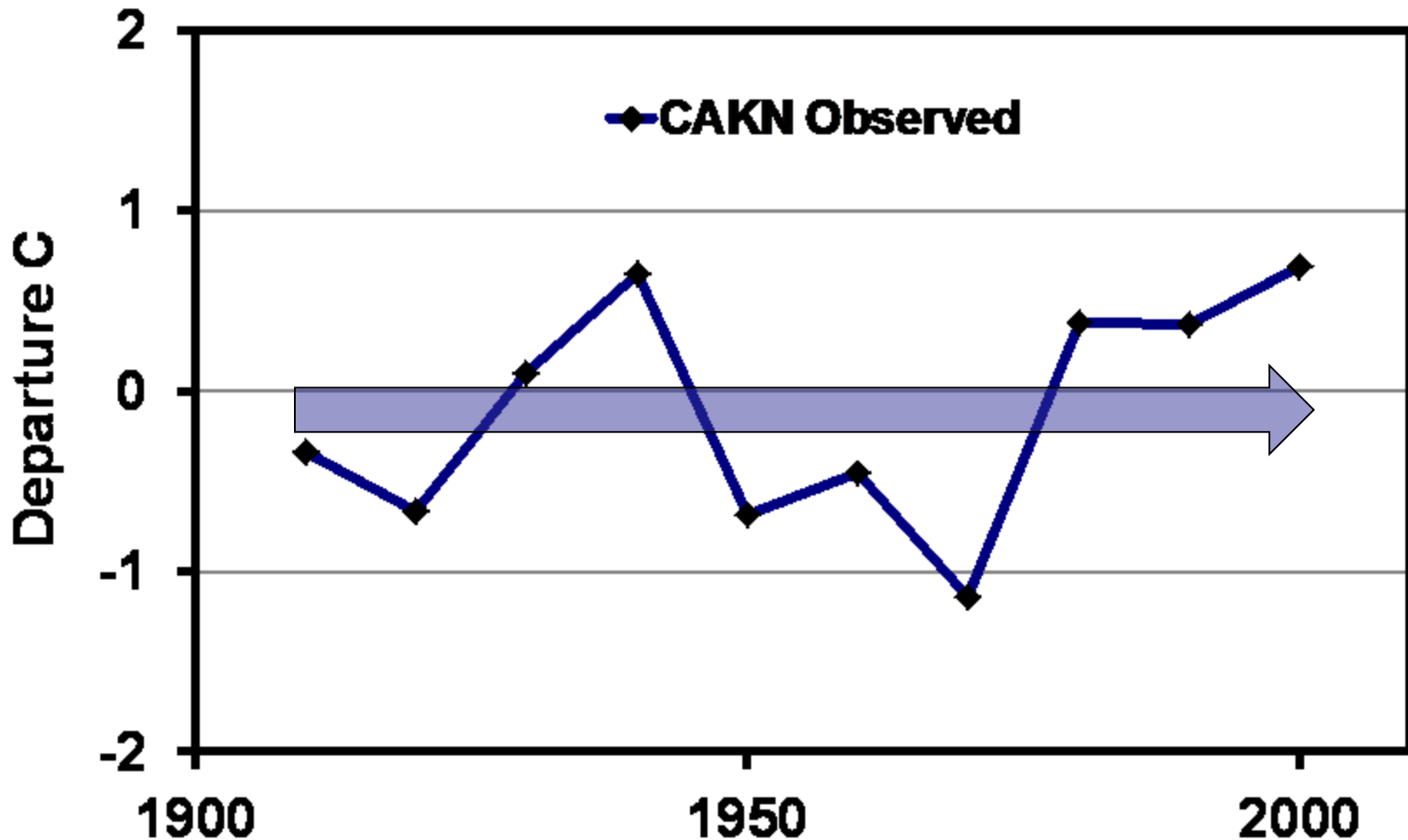
Removing those “corrections” changes the story.



Another trick -

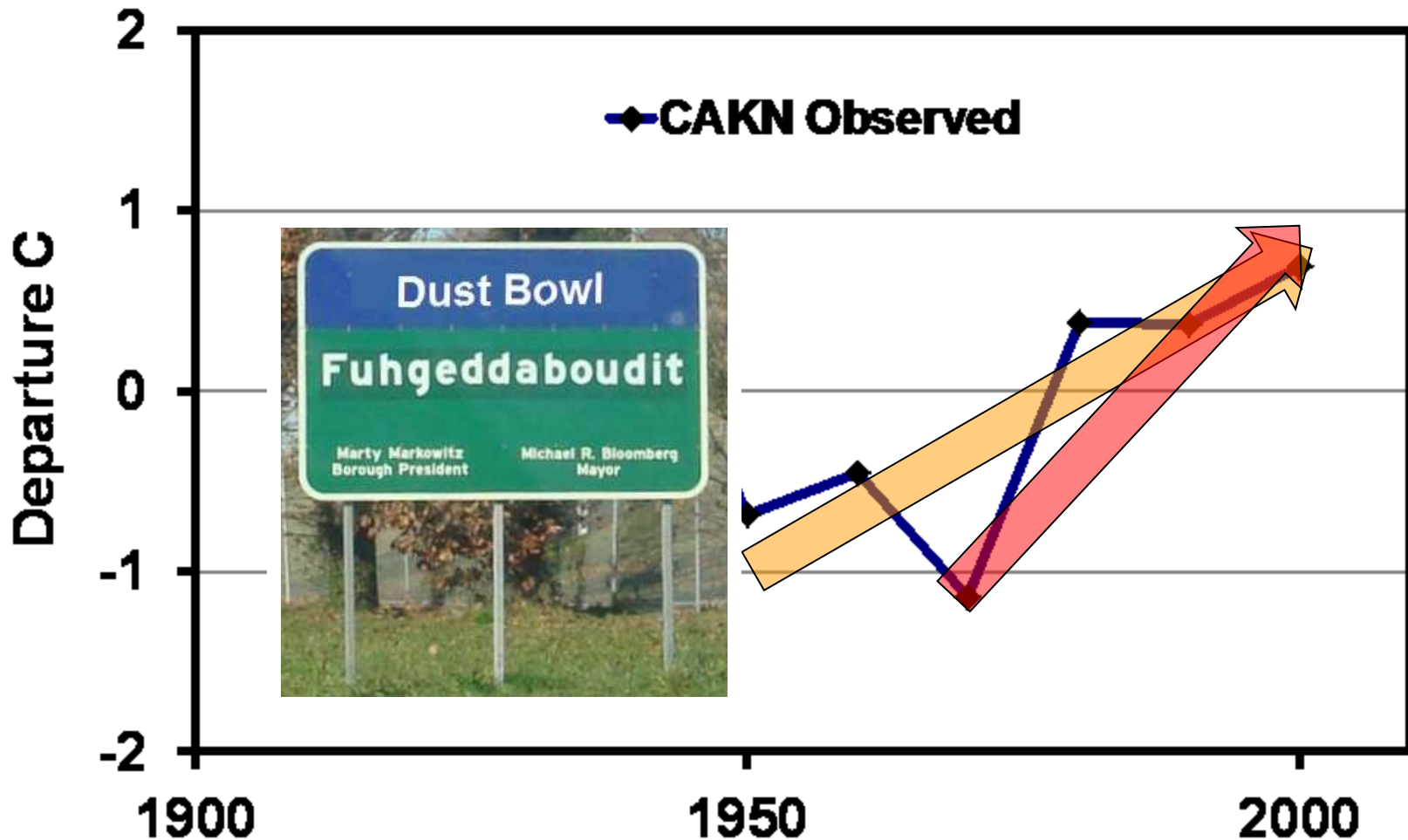
if you can't adjust the past, just ignore it.

Central Alaska Decadal Temperatures
Average of 9 long-term rural stations



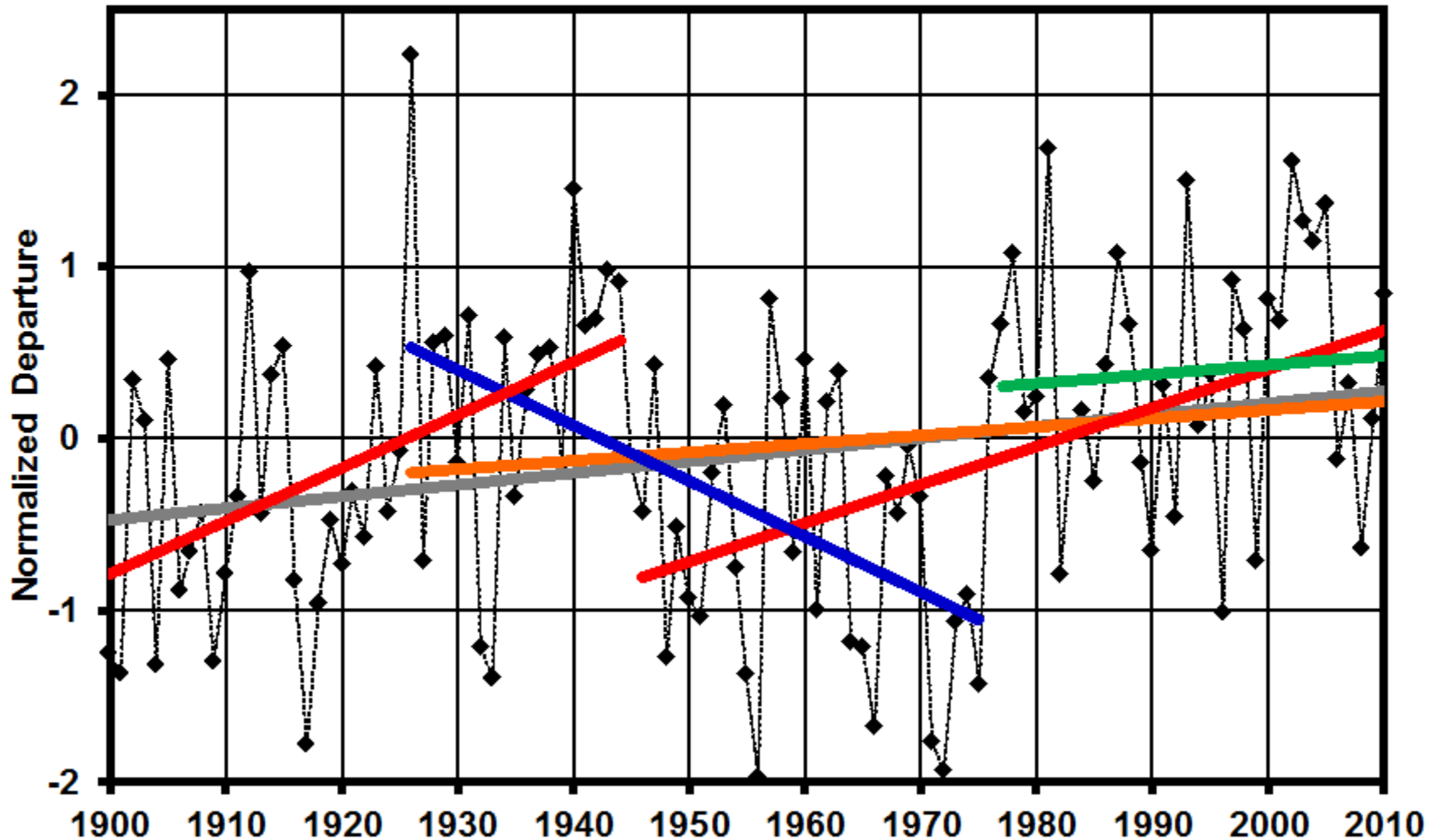
Like this: start with 1950 or 1970, and forget about earlier warm epochs. “Past 50 years...”

**Central Alaska Decadal Temperatures
Average of 9 long-term rural stations**



Pick 'n choose your time frame.

Normalized CAKN region Annual Temperatures
Average of 9 stations, with trends

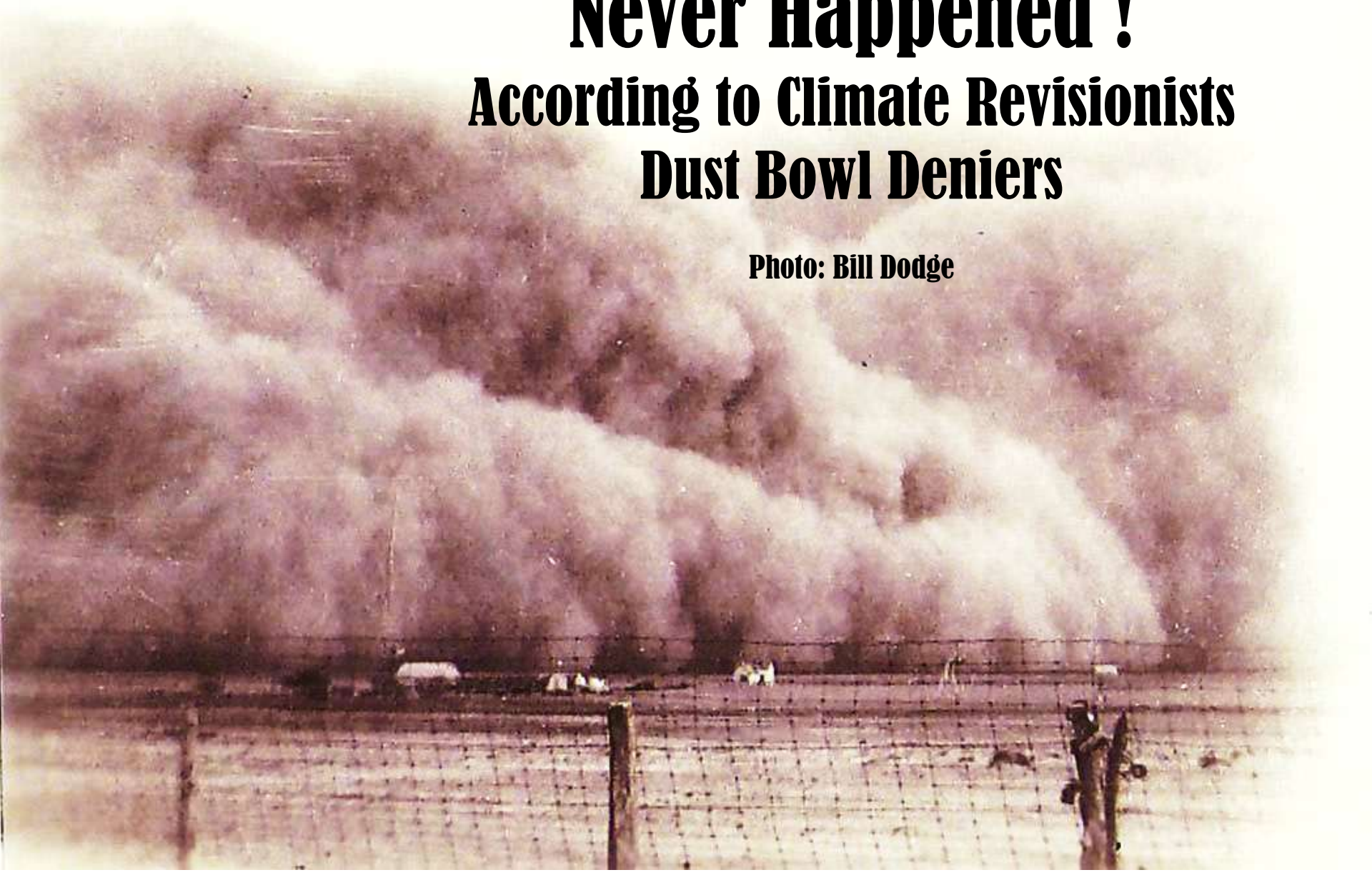


***Dude, the sea level went up
20 feet in 10 seconds !***



Grenada, Colorado, 1934
Never Happened !
According to Climate Revisionists
Dust Bowl Deniers

Photo: Bill Dodge



**Re-write history
by erasing the Dust Bowl, Little Ice Age, and Medieval
Warm period from our climate memory.**

Just like the “Vanishing Commisar”, Nikolai Yezhov.



The Dust Bowl is erased from our climate history, as is the Little Ice Age and the Medieval Warm period.

The “Vanishing Commisar”, Nikolai Yezhov, would understand.

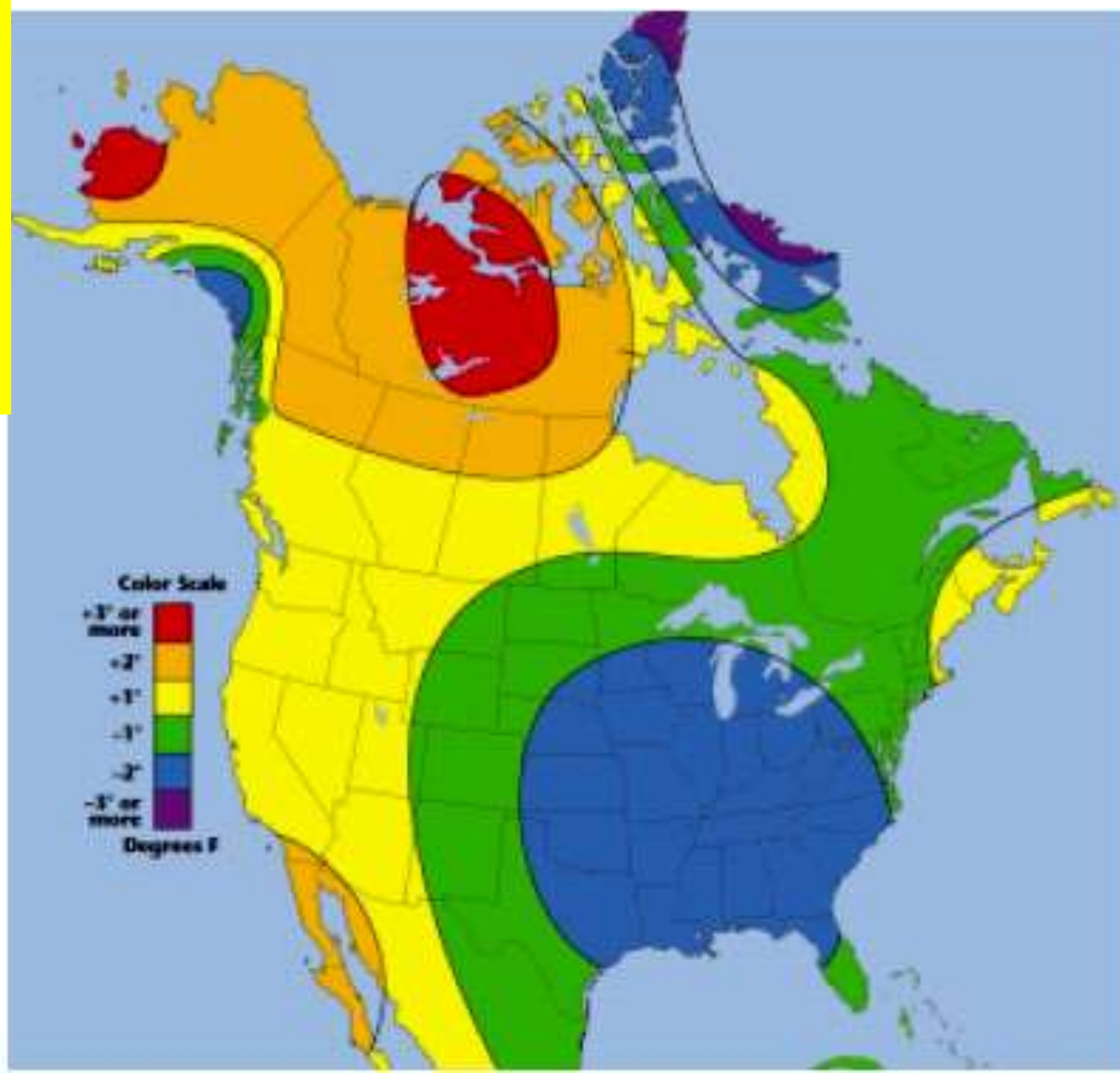


4. Poor Coverage of the Globe

This matters, because

Most climate change is regional on the scale of Rossby waves (3000 km)

Temperature trends over North America since 1930—North America has experienced a mixed bag of climate change over the past 70 years. Most of the western states have warmed by a fraction of a degree, and some arctic regions of Canada and Alaska have warmed as much as 2 degrees. Meanwhile, the eastern half of the U.S. has cooled by a degree or more. NASA GODDARD INSTITUTE FOR SPACE STUDIES



BULLFROG FILMS PRESENTS

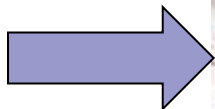
BAKED Alaska



AMERICA'S COLDEST, RICHEST STATE IS WARMING
TEN TIMES FASTER THAN THE REST OF THE WORLD.

**Alaska:
Regional changes
are 10x
Global changes,
according to
Bullfrog Films and
other Warmers.**

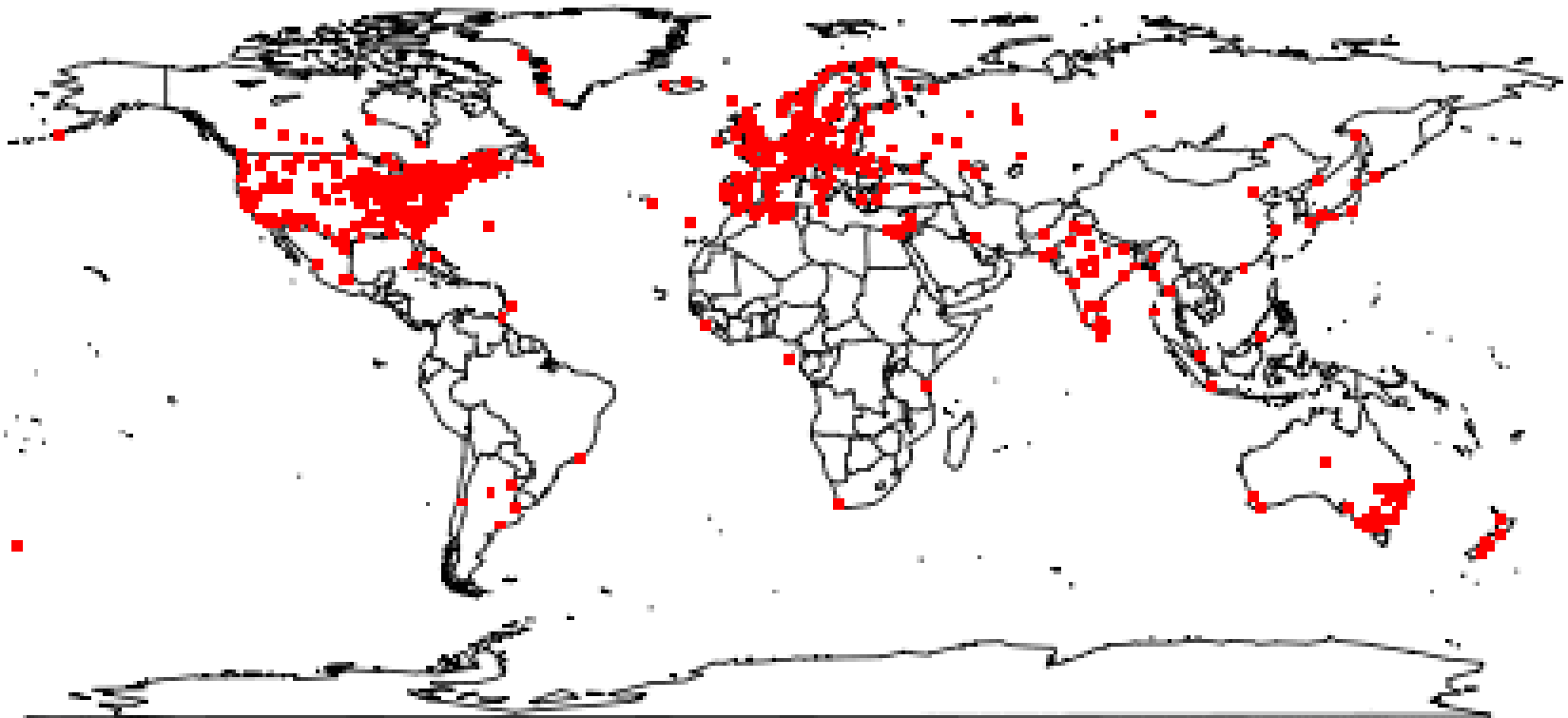
**Does this mean
the rest of the
world warms 10x
LESS than Alaska?**



**Global temperatures are not global.
Only a third of the globe is sampled.
Huge gaps & voids in the coverage.**

From The Whiteboard

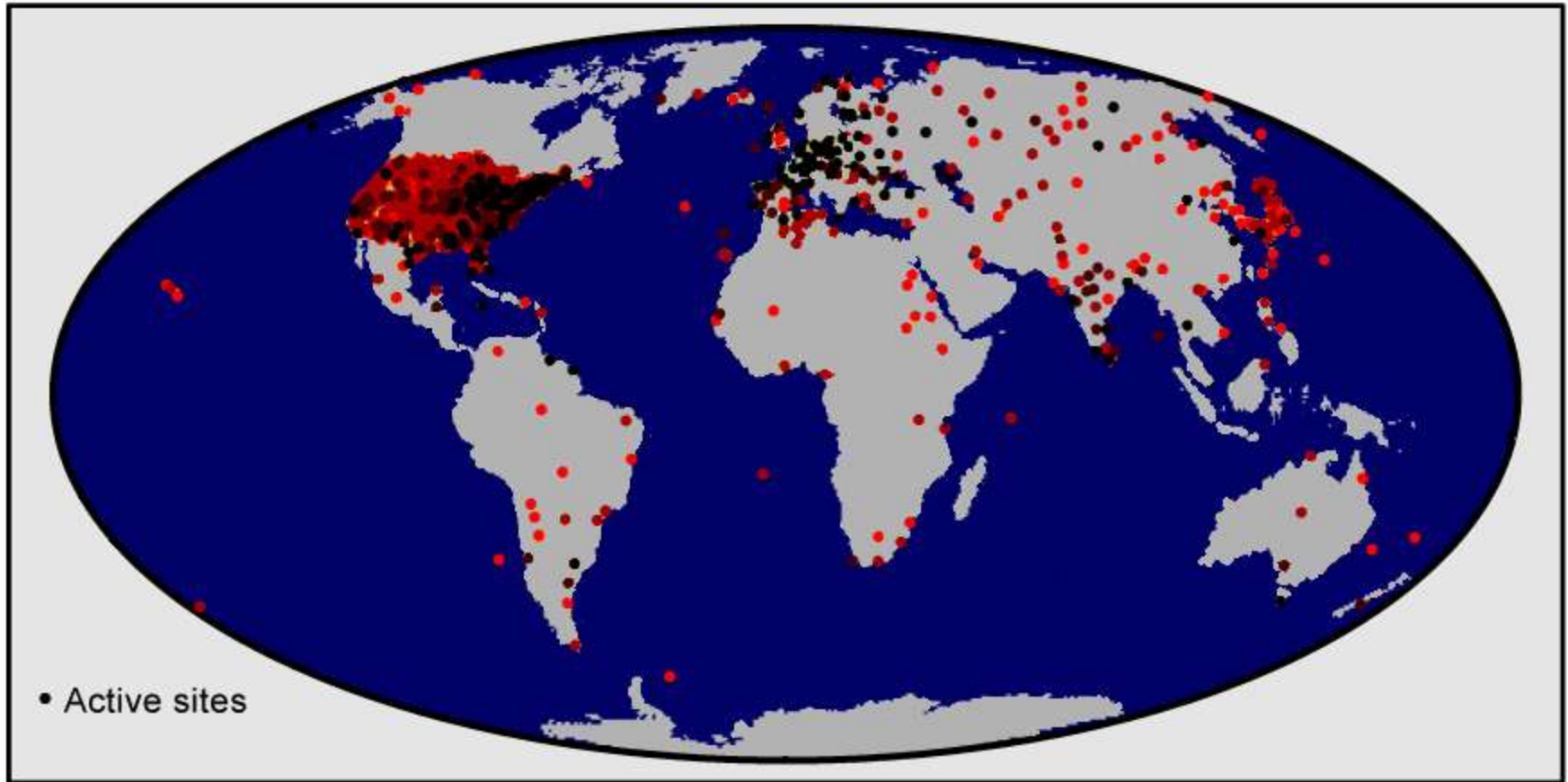
GHCN Stations - 1880



Global temperatures are not global.

Over the past century or more, vast regions of the globe have not been consistently measured.

Global Climate Network Temperature Stations



**Record 1920-2010 or longer
(Wikipedia)**



Length of Station Record (years)

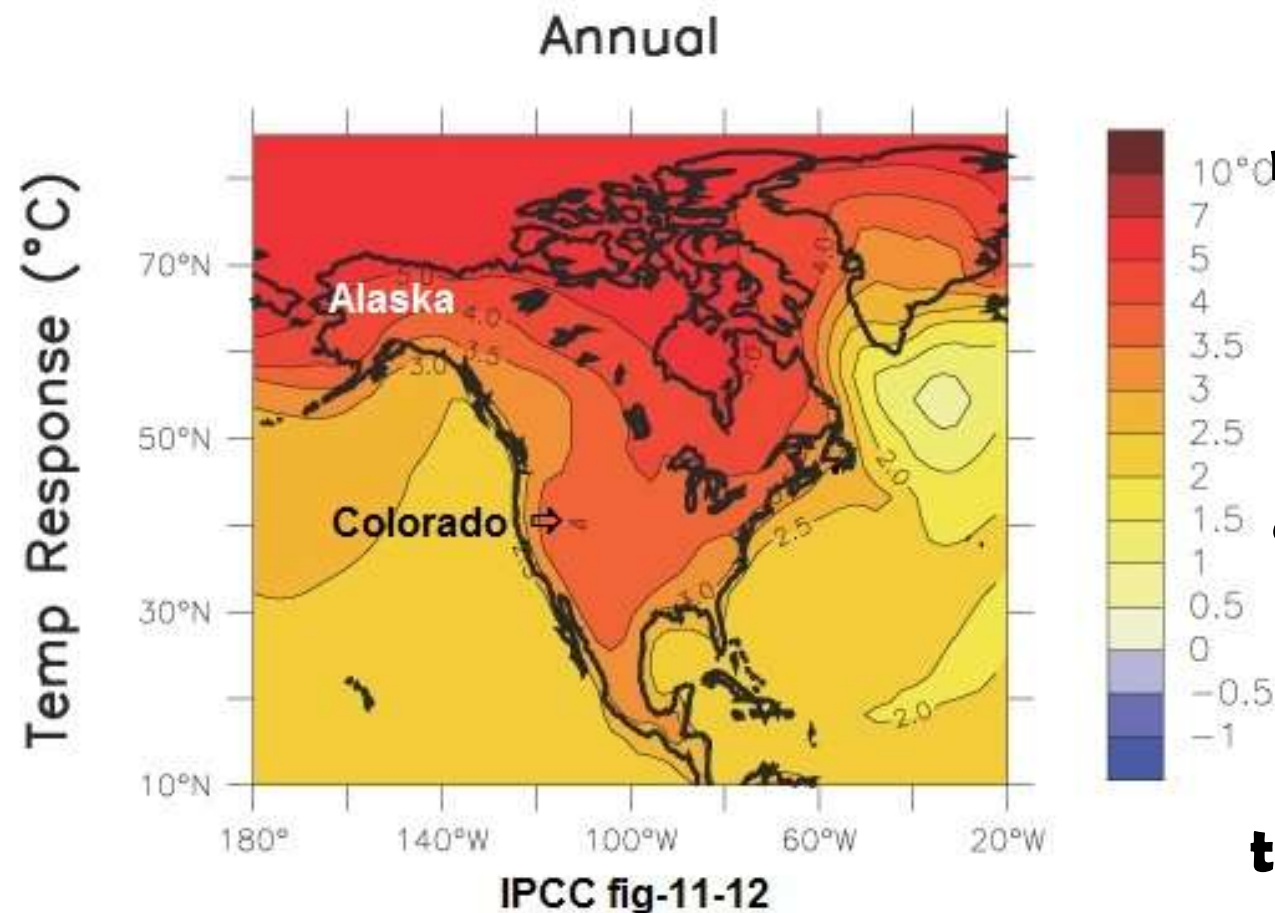
4. Poor Coverage of the Globe

Huge data gaps & voids miss many regional changes that contribute to “global” trends.

Data holes are the devil’s playground, where AGW seekers can interpolate, extrapolate, manipulate, and create “data” – and warming trends.

Changes in Latitudes, Changes in Altitudes

Avoid the devil's playground by looking at data rich Regions where you don't have to fill in the blanks.



Two well-measured regions “projected” to have rapid warming (4°C , 7°F) by 2099

**Alaska:
“arctic amplification”
at high latitudes**

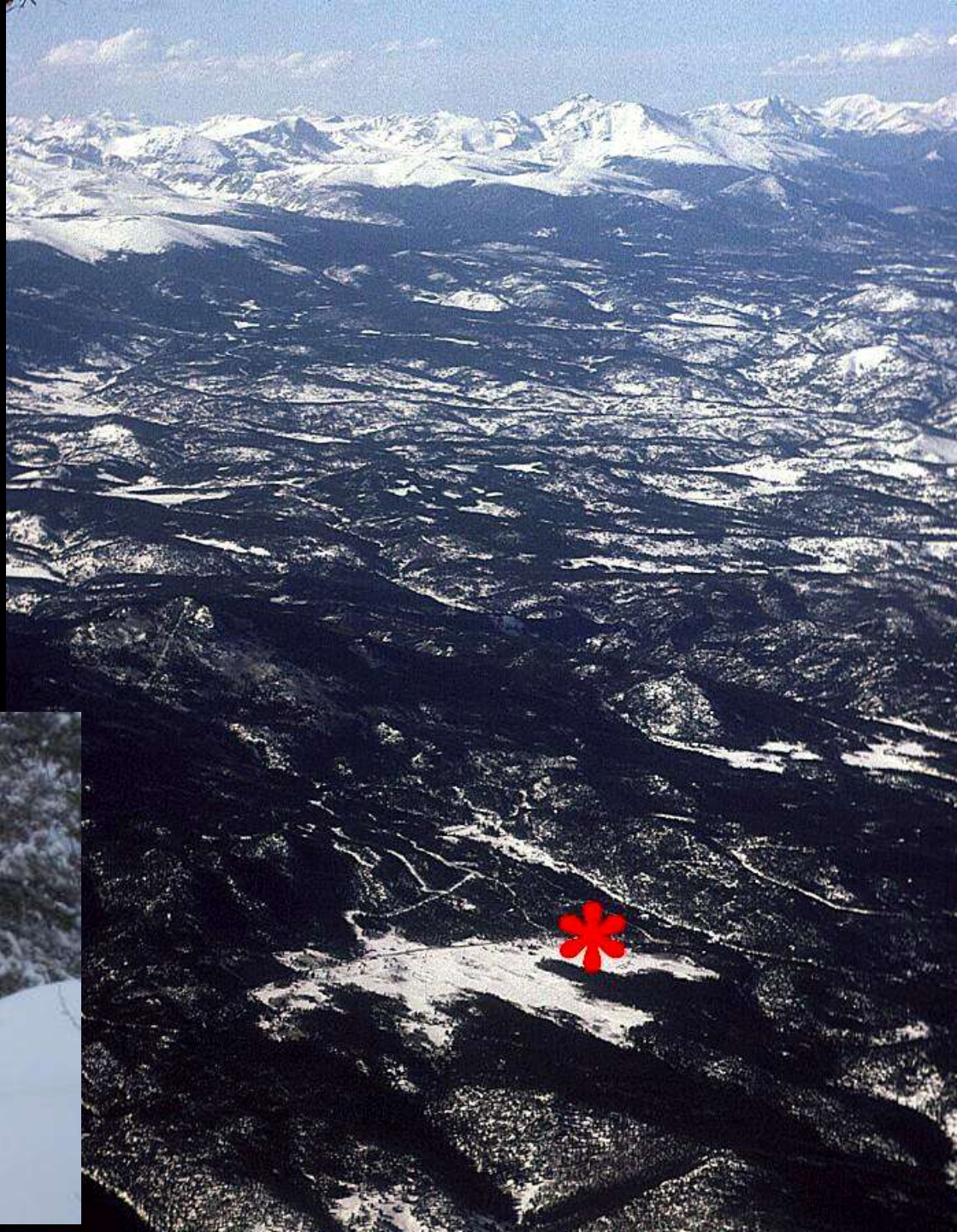
**Colorado:
tropospheric “hot spot”
at high altitudes**

Temperature changes over North America from the MMD-A1B simulations. Annual mean temperature change between 1980 to 1999 and 2080 to 2099, averaged over 21 models

Colorado.

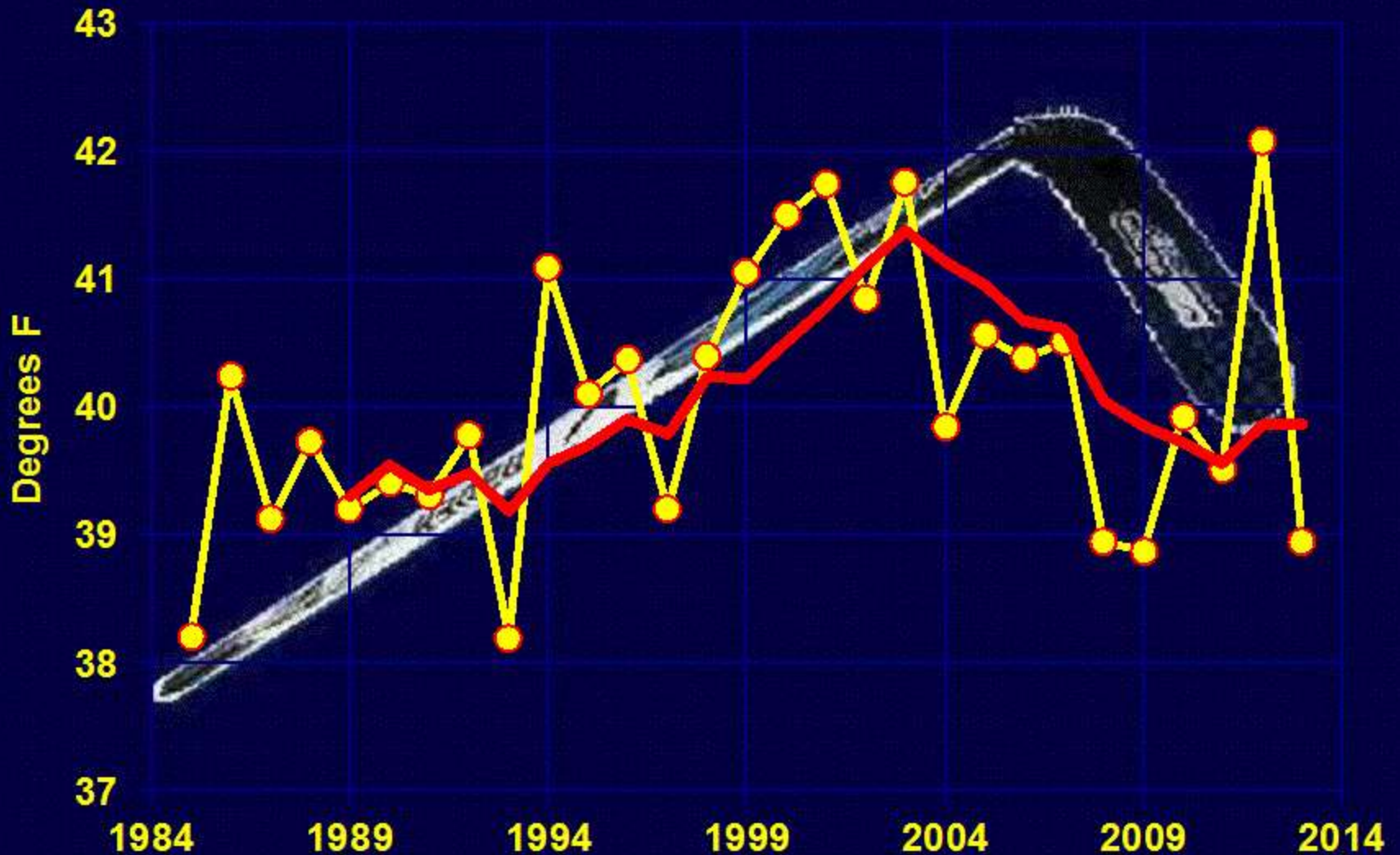
**Coal Creek Canyon
co-op station, my Home.**

**Carefully calibrated,
maintained & operated
in a very rural location.**

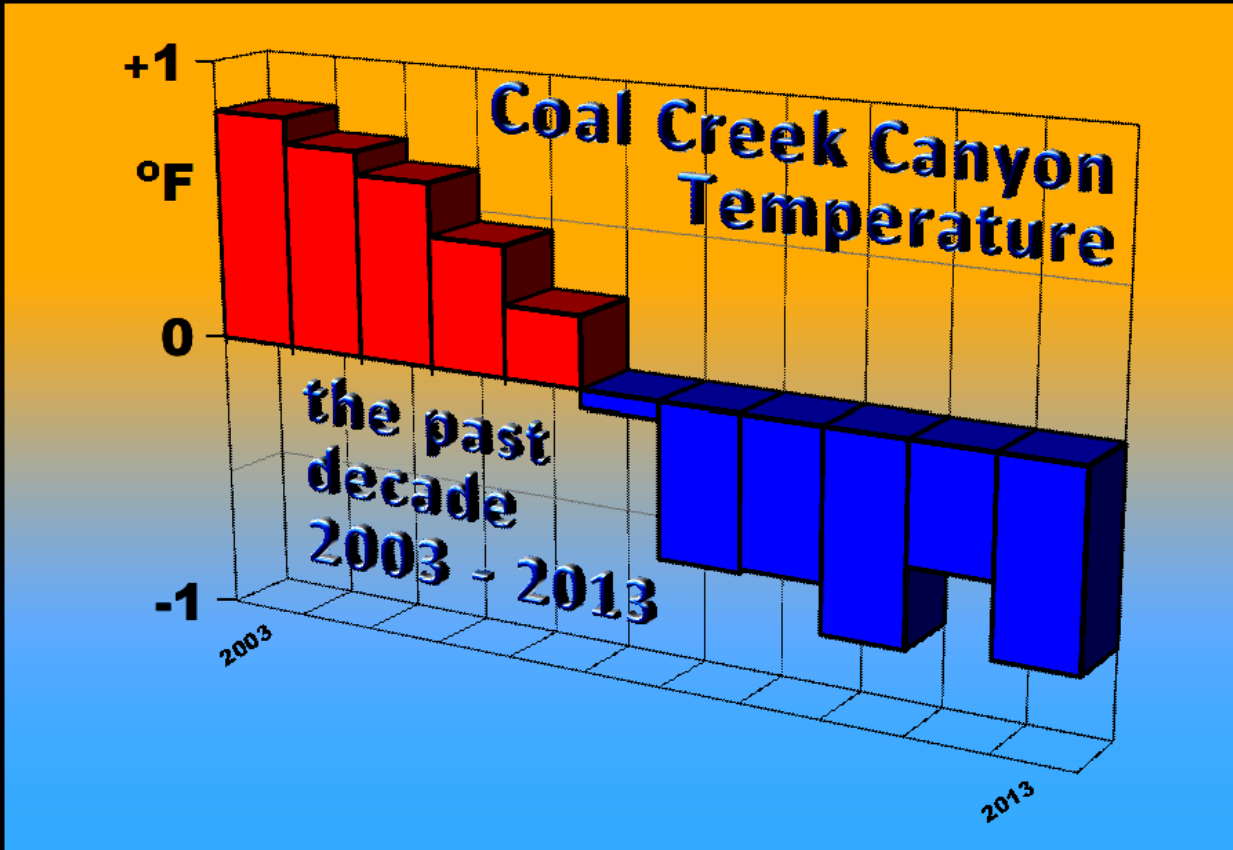


IPCC: should have warmed 2°F in 30 years
Actual: 0.5°F warming, cooling past 11 years

Coal Creek Annual Temperatures



IPCC predicts: 1°F warming every 15 years.



**Actual:
Down 1.5°F
in 11 years**

Colorado, and the rest of the world, hasn't warmed in 16 years (since 1998).

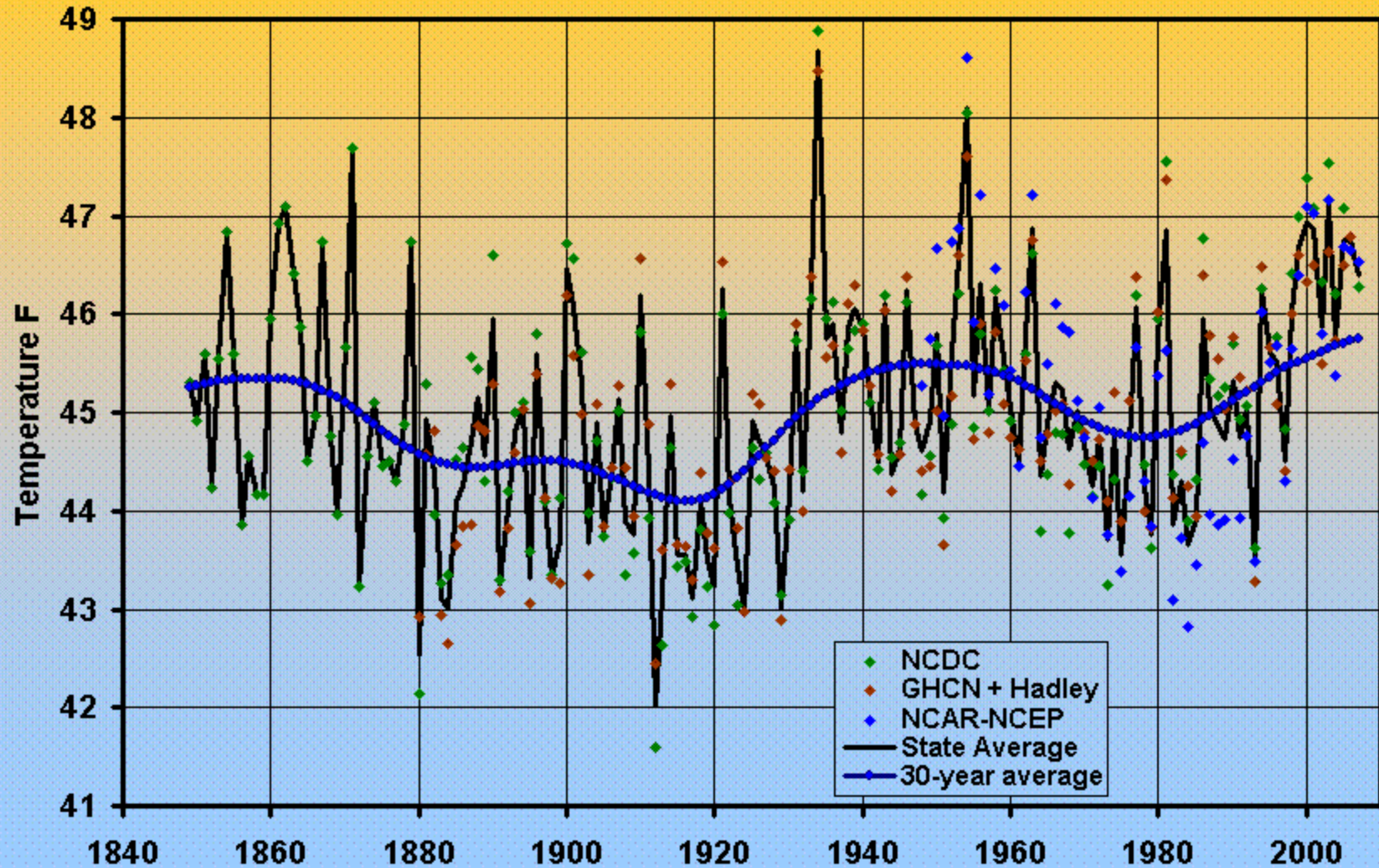
Not to worry, IPCC says we need 17 years of cooling !

IPCC Santer et al. (2011):

“To separate human-caused global warming from the “noise” of purely natural climate fluctuations, temperature records must be at least 17 years long.”

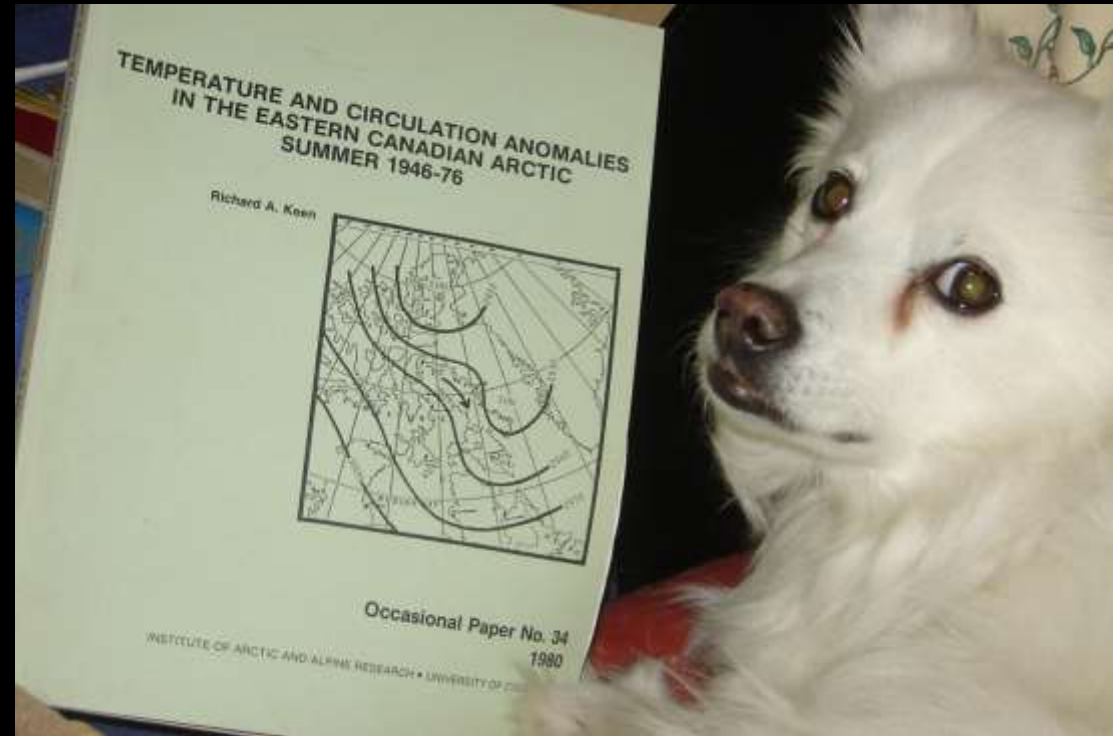
Older slightly adjusted NCDC Colorado data: PDO cycles, but 1/4-degree warming since 1849!

Colorado Annual Mean Temperature, 1849-2007
Average of four different sources



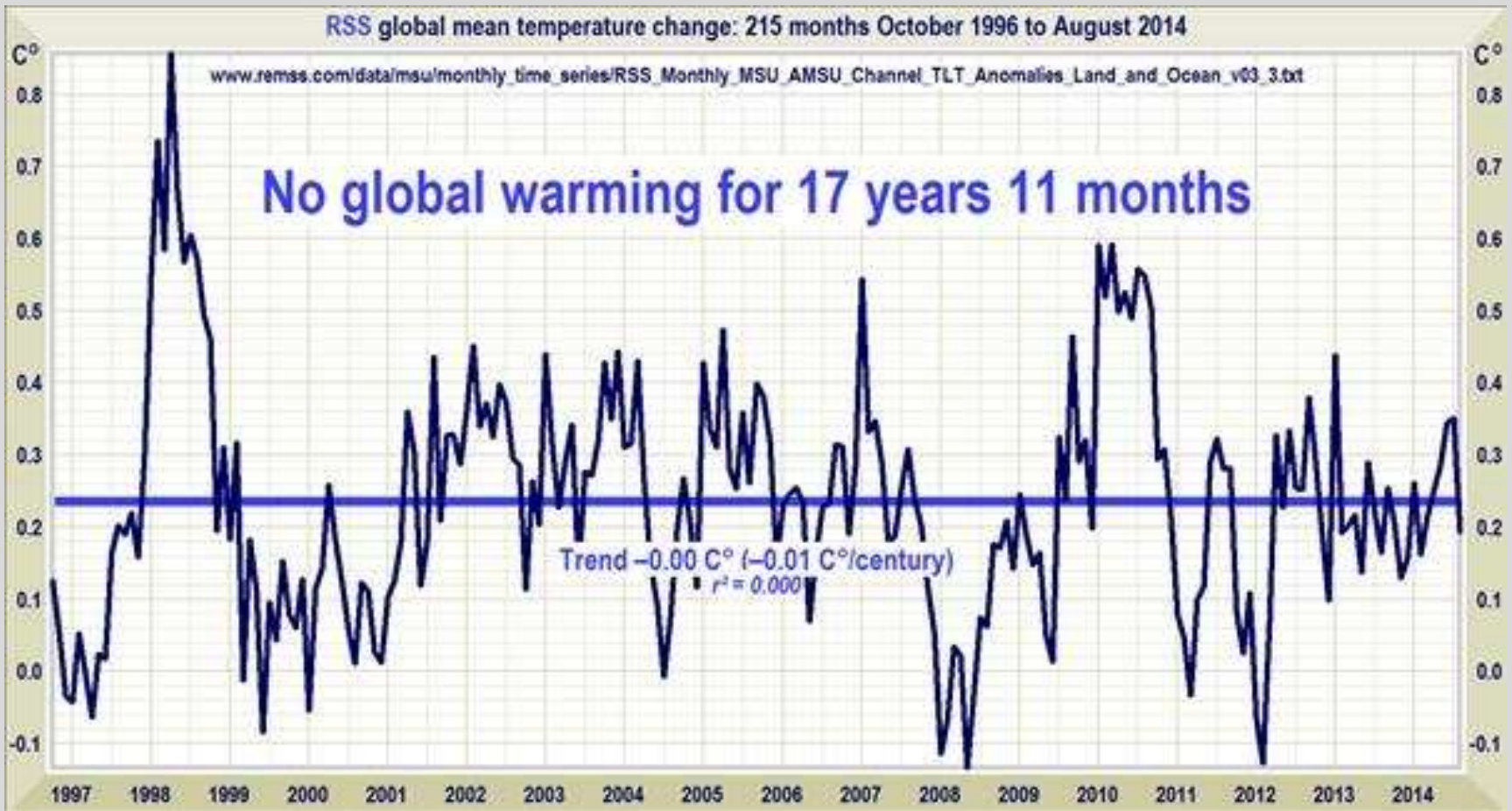
1979

- 1. I finished my thesis**
- 2. I got my PhD**
- 3. I got a job**
- 4. Skylab crashed**
- 5. Global Satellite Temperatures**



Finally, true Global Temperatures began in 1979. Do they show Global Warming?

No, the Satellite data show ...



Oh my, 17 – no, 18 – years!
And most of the $\frac{1}{4}$ °C warming before
that can be explained by volcanoes

The Art of Detection

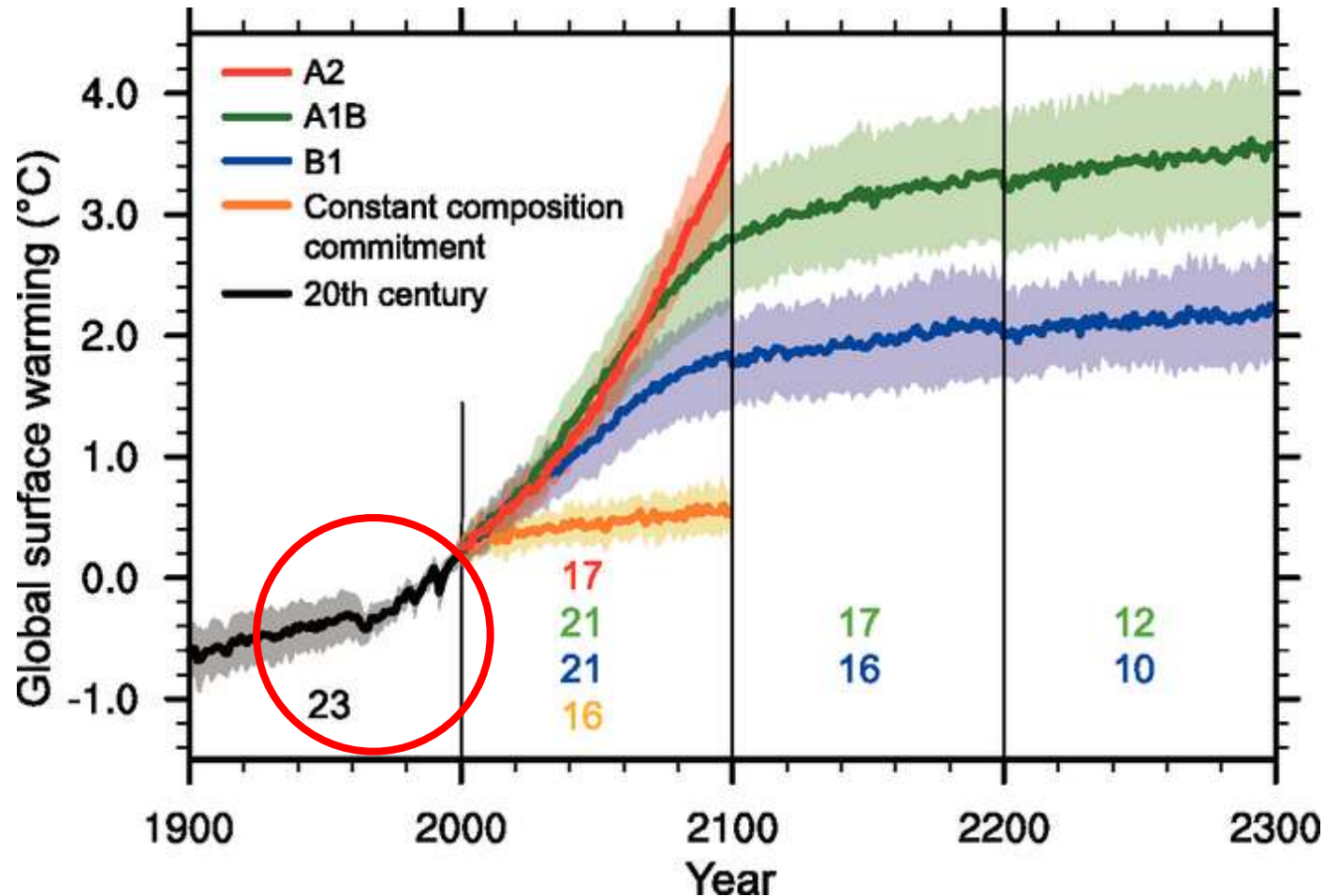
- 1. Satellite detects $<0.1^{\circ}\text{C}$ Global Warming since 1979**
- 2. Warming is barely measureable and not noticeable by hominids or thermometers with $1/2^{\circ}\text{C}$ accuracy**
- 3. At current growth rates, CO_2 “global warming” by 2100 will amount to another 0.33°C**
- 4. Weather Station records detect larger regional changes (Alaska) from cyclical PDO, AMO, but not AGW**

The Art of Deception

- 5. Appearance of Global AGW is inserted into Weather Station data holes via manipulation and adjustments.**
- 6. Or simply ignore past warmings and use data since the last cool period (1950-1970s) - “Dust Bowl Deniers”
“over the past 30 years...” or “since 1950...”**

WHY do they do this?

So the “data” fits their models.



**“People underestimate the power of models.
Observational evidence is not very useful.”**

-- John Mitchell, Chief Scientist at the UK Met Office & IPCC

"If you torture the data long enough, it will confess."



**Ronald Coase,
British economist.
Nobel Prize in Economics, 1991.**

Torture the data until Adjustments = Model Projections



**“... our [temperature adjustment] algorithm is working as designed”
- NCDC**

Climate Change in Colorado

*A Synthesis to Support Water Resources
Management and Adaptation*



A Report for the Colorado Water Conservation Board

Executive Summary

Adapted from the Report

**Name two “tricks” in this
summary statement:**

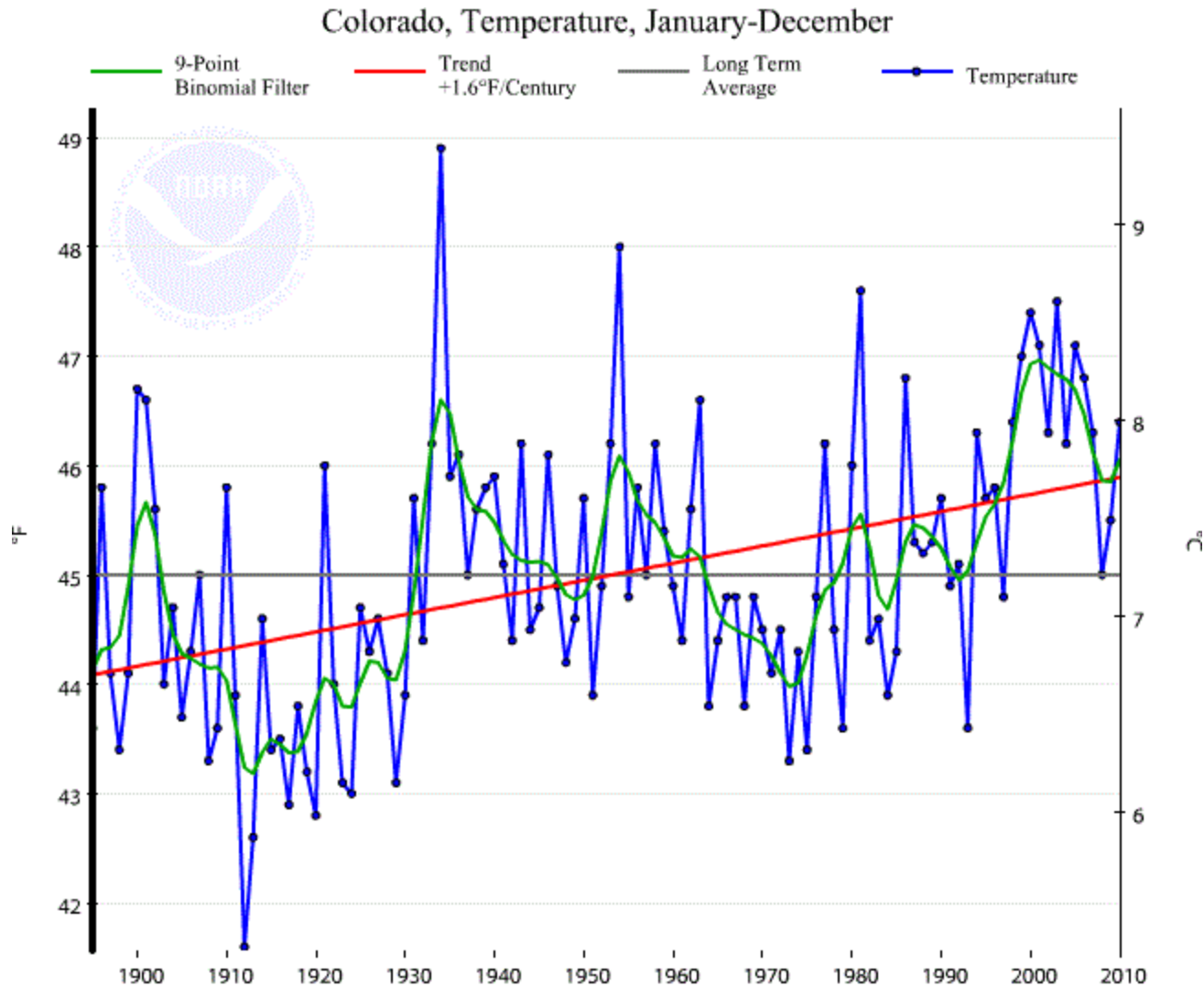
Colorado has warmed:

**Statewide average annual
temperatures are 2 degrees
Fahrenheit higher than they
were three decades ago.**

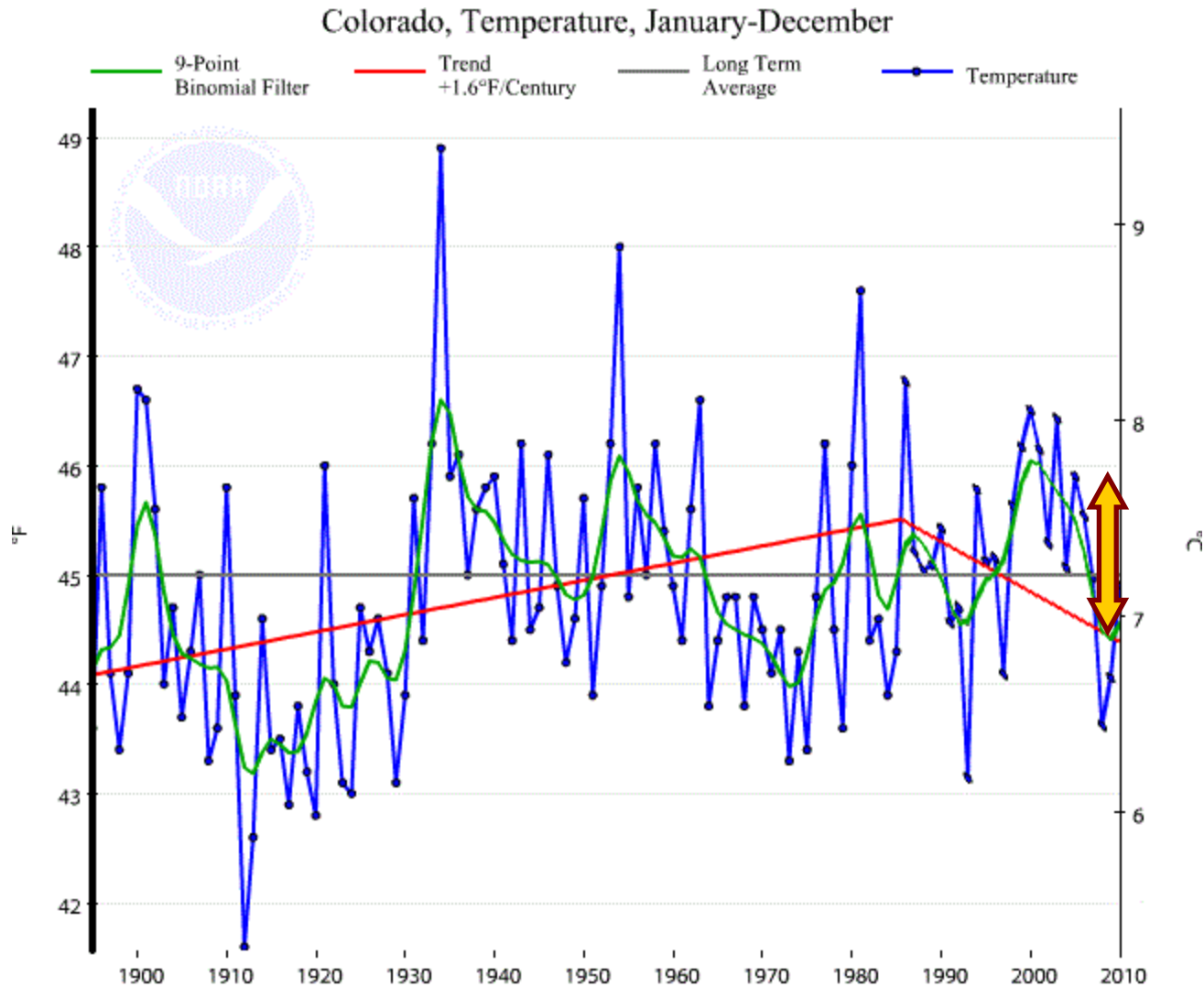
**Future warming in the state is
likely to lead to more heat
waves, wildfires and droughts.
Observations show there have
already been increasing
trends in these three extremes
over the past 30 years.**

**Snowpack is melting earlier,
on average, by one to four
weeks compared with 30
years ago.**

Right! Adjusted data, and the 30-year ruse.



Removing those “corrections” changes the story.



Climate Change in Colorado

*A Synthesis to Support Water Resources
Management and Adaptation*



A Report for the Colorado Water Conservation Board

Executive Summary

Adapted from the Report

**My God, we'll turn into
Pueblo!**

**Climate models indicate that
the state's average annual
temperature will continue to
increase, by 2.5 to 6.5 degrees
by 2050.**

**A 2-degree increase would
make Denver's temperatures
in 2050 more like Pueblo's
today.**

**A 6-degree shift would push
Denver's temperatures
beyond any found in Colorado
today, to more like those in
Albuquerque, New Mexico,
today.**

The Root of all Evil.

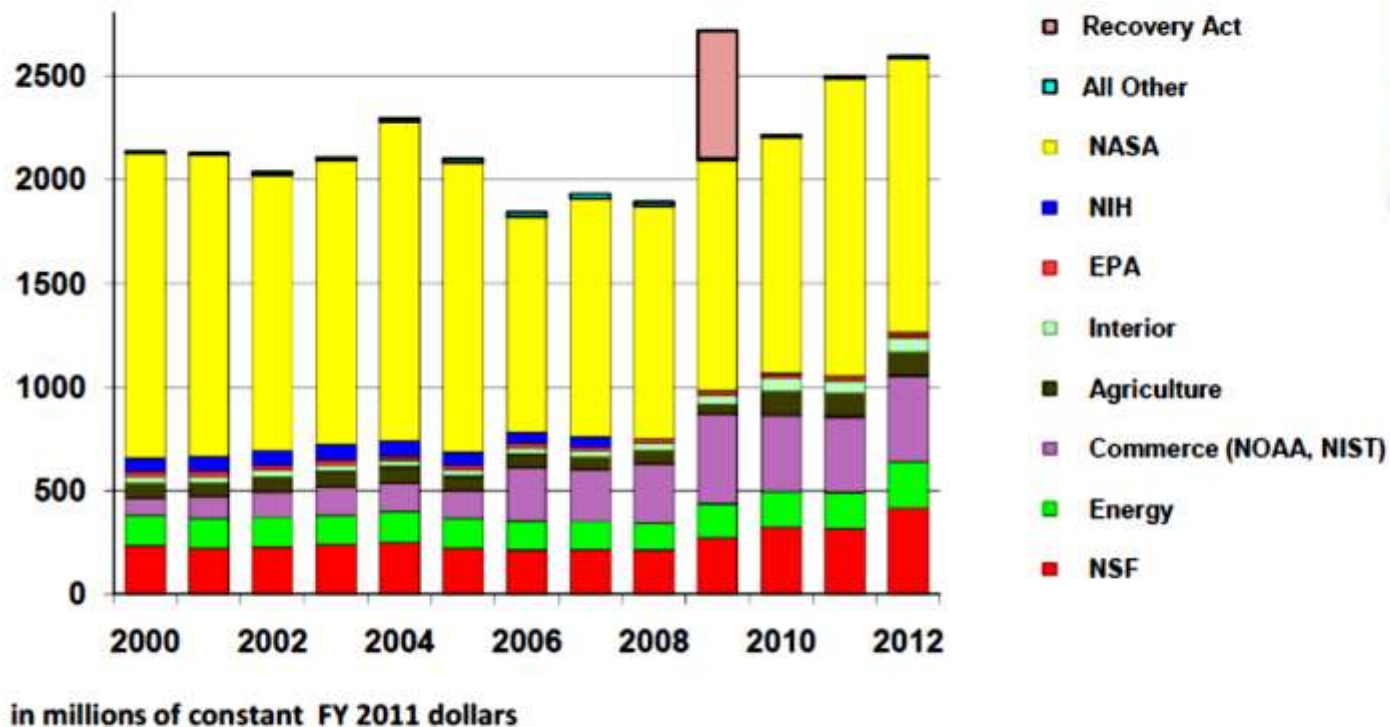


“The National Climate Assessment (NCA) is being conducted under the auspices of the Global Change Research Act of 1990, which requires a report to the President and the Congress that evaluates, integrates and interprets the findings of the \$2.6 billion USGCRP every four years.”

“ aimed at understanding and responding to global change, including the cumulative effects of human activities ”



Combating Climate Change: US Global Change Research Program



FEB. '11 OSTP
2011 figures are preliminary estimates.



Understanding and Responding to Our Changing Planet

*The U.S. Global Change Research Program
in the 2012 Budget*

Figure 1.

After inheriting a program suffering from several years of declining funding, the Obama Administration has revitalized the USGCRP (see Figure 1). The 2009 Omnibus Appropriations

IPCC

INTERGOVERNMENTAL
PANEL ON
CLIMATE CHANGE



Here's what the IPCC says about itself.

“The stated aims of the IPCC are to assess scientific information relevant to:

- human-induced climate change,**
- the impacts of human-induced climate change,**
- options for adaptation and mitigation“**

Translation: The IPCC's role is to assess human induced climate change, not to determine if it is real. Just like the USGCRP

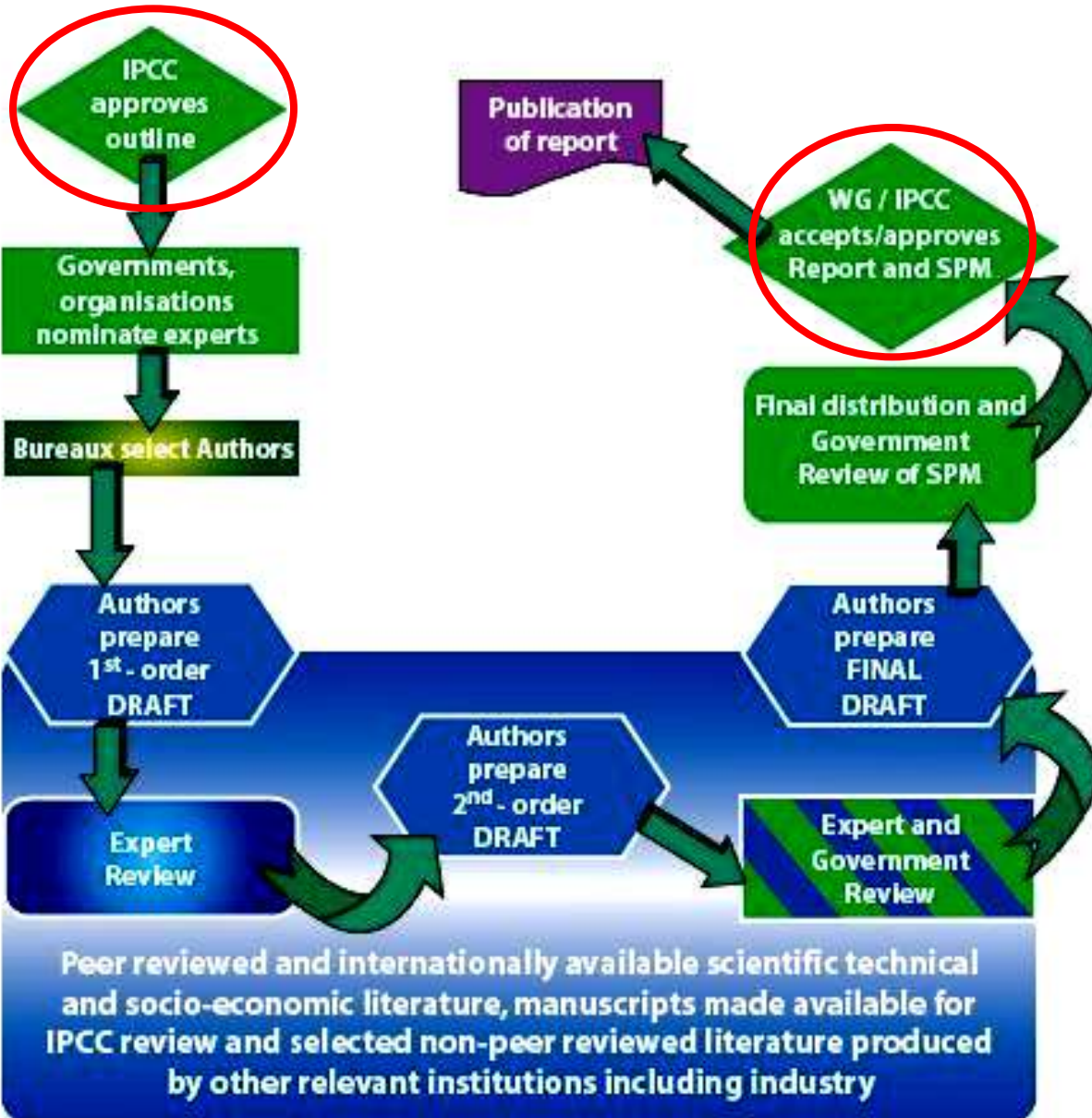
Start here

IPCC flow chart.

The IPCC panel “approves” the outline of the report before the authors are selected, then chooses the authors, and approves the final product when the authors are done.

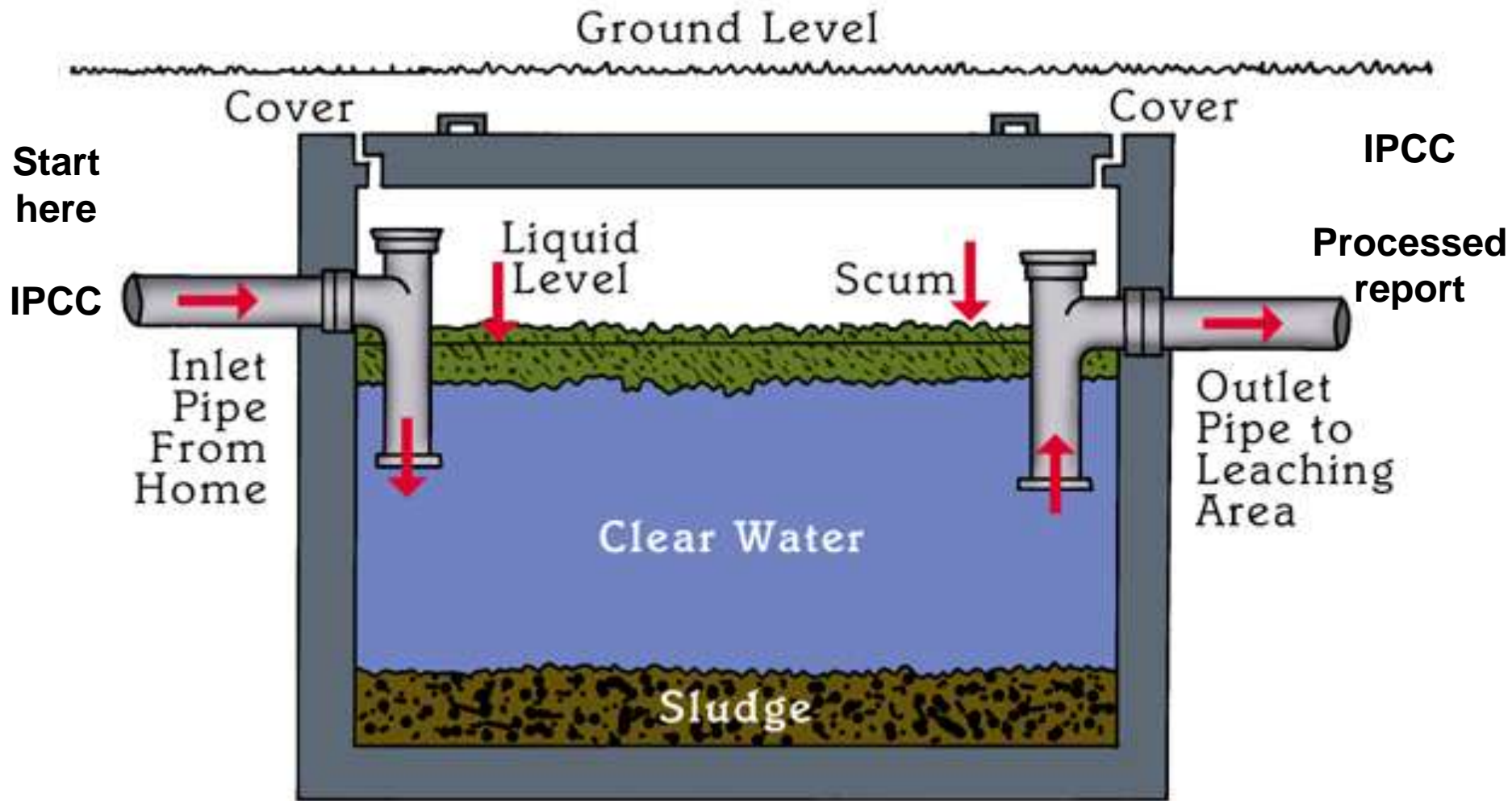
Along the way there’s “government reviews”.

Green = Government
Blue = Science



Peer reviewed and internationally available scientific technical and socio-economic literature, manuscripts made available for IPCC review and selected non-peer reviewed literature produced by other relevant institutions including industry

IPCC flow chart is modeled after another flow chart.



Septic Tank

Who's paying for all this?

Who do you think?

WHY are you paying for this?

“Urgent and unprecedented environmental and social changes challenge scientists to define a new social contract...a commitment on the part of all scientists to devote their energies and talents to the most pressing problems of the day, in proportion to their importance, in exchange for public funding.”

-- Jane Lubchenco

when she was president of AAAS in 1999.

Now Obama’s NOAA chief.

Translation:

We’ll pay you to study what WE decide is important (global warming).

We won’t pay you to not study global warming.





Akin to, and largely responsible for the sweeping changes in our industrial-military posture, has been the technological revolution during recent decades. In this revolution, research has become central; it also becomes more formalized, complex, and costly.

A steadily increasing share is conducted for, by, or at the direction of, the Federal government.

Today, the solitary inventor, tinkering in his shop, has been overshadowed by task forces of scientists in laboratories and testing fields. In the same fashion, the free university, historically the fountainhead of free ideas and scientific discovery, has experienced a revolution in the conduct of research. Partly because of the huge costs, a government contract becomes virtually a substitute for intellectual curiosity. For every old blackboard there are now hundreds of new electronic computers.

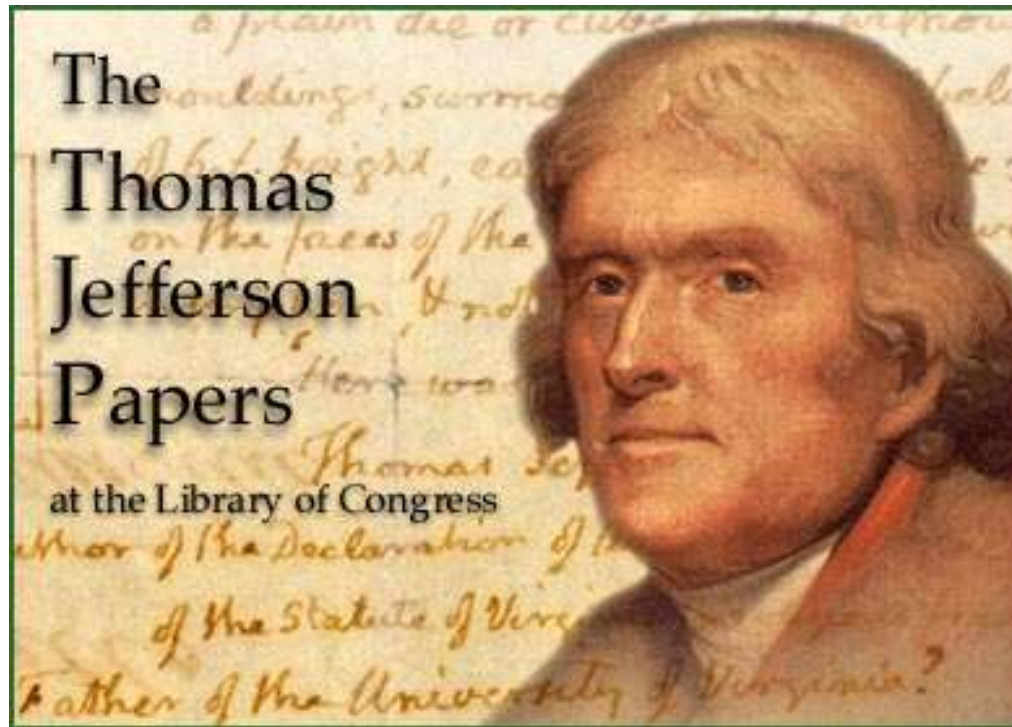
The prospect of domination of the nation's scholars by Federal employment, project allocations, and the power of money is ever present -- and is gravely to be regarded.

Yet, in holding scientific research and discovery in respect, as we should, we must also be alert to the equal and opposite danger that public policy could itself become the captive of a scientific-technological elite.

**President
Dwight D.
Eisenhower
Farewell Address
17 January 1961**

51 years ago

Two Billion dollars per year to the climate industry (plus a Billion stimulus), and they still don't get it right.



**"It is error alone which needs the support of government. Truth can stand by itself."
--Thomas Jefferson: Notes on Virginia, 1782**



**No wonder
Jefferson is on the
2-dollar bill, and
Obama is on the
Trillion.**

**Which is worth
more?**



The direct impact of human CO₂ on climate is at most 0.2°C, the US contribution is a fraction of that, and US CO₂ emissions are now decreasing.

Therefore, strategies like Cap'n Trade and Kyoto are

Ineffective Policies

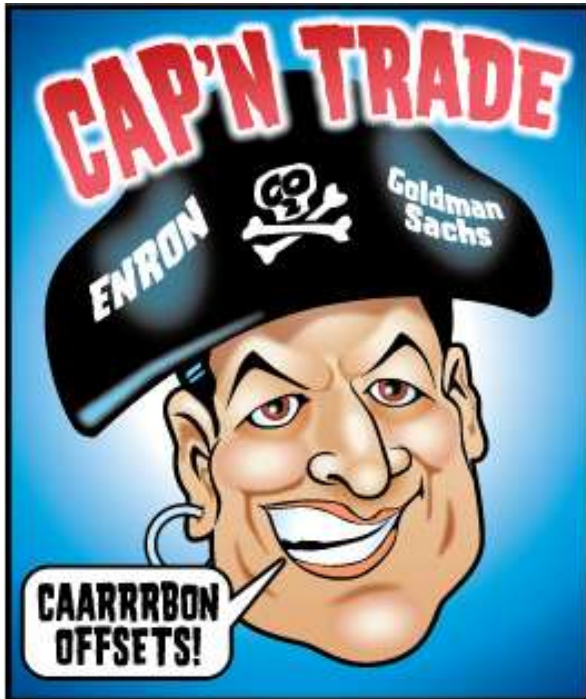
that will

Fail to Solve a

Nonexistent problem.

Why do we still consider them?

To justify other agendas, like...



Energy Policy & EPA “Power” grabs.

The price of purchased “science” is the tip of the iceberg.
Science is used to justify much more costly political policies.

Example: Obama’s rejection of the Keystone Pipeline.

Compare the pipeline map (left) with the 2008 electoral map (right) and draw your own conclusions as to the real reason for using climate as an excuse to reject the project.



Red states are populated by undeserving boors who did not vote for Obama

On that happy note

Enjoy the warm climate
while it lasts, and
please make enough CO_2
to feed a tree.

Have a nice day.

