

What has happened to the National Academy of Sciences?



Bob Endlich

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Cruces Atmospheric Sciences Forum

15 Oct 2025

Outline

MY INTRODUCTION to the NAS: Supporting The Titan 2 Missile and Toxic Corridors, then Toxic Corridors for HELSTF.

The National Academy of Sciences, first, in its own words

National Academy of Sciences Committee on Toxicology

- NAS Book, **Advancing the Science of Climate Change** (2010)
- National Academies Consensus Study Report, **Effects of Human-Caused Greenhouse Gas Emissions on U.S. Climate, Health, and Welfare** (in press, 2025)

Dr Frank Lasee': **"The NAS Climate Report: A Biased Rush to Rubber-Stamp Costly Regulations,"** 18 Sep 2025

Dr Steve Koonin: **"At Long Last, Clarity on Climate,"** 9 Sep 2025

Dr David Wojick: **"National Academies Go Preposterous on CO2,"** 24 Sep 2025

Steve Milloy: **"Rigged Report by National Academies Aims to Thwart Trump Energy Agenda,"** 21 Sep 2025

Outline (Continued)

Daily Caller: “**Insiders Say National Academy Of Sciences’ Climate Report Clapping Back At Trump EPA Has More Holes Than Swiss Cheese,**” 17 Sep 2025

CASF.ME: “**Errors in the 4th National Climate Assessment, released 23 Nov 2018, Black Friday**”

https://casf.me/wp-content/uploads/2018/12/PDF_Errors-in-the-4th-National-Climate-Assessment-released-23-Nov-2018-Black-Friday-.pdf

CASF.ME: **Fifth National Climate Assessment, “NCA5: ” It is Full of Bogus Claims.** 15 Dec 2023 <https://casf.me/a-critique-of-the-fifth-national-climate-assessment/>

CASF.ME: **BS at the National Academies of Science, Engineering and Medicine** (contained within the above post/graphics) Content copied from the Academies Website 16 Aug 2019, edited 26 Feb 2020.

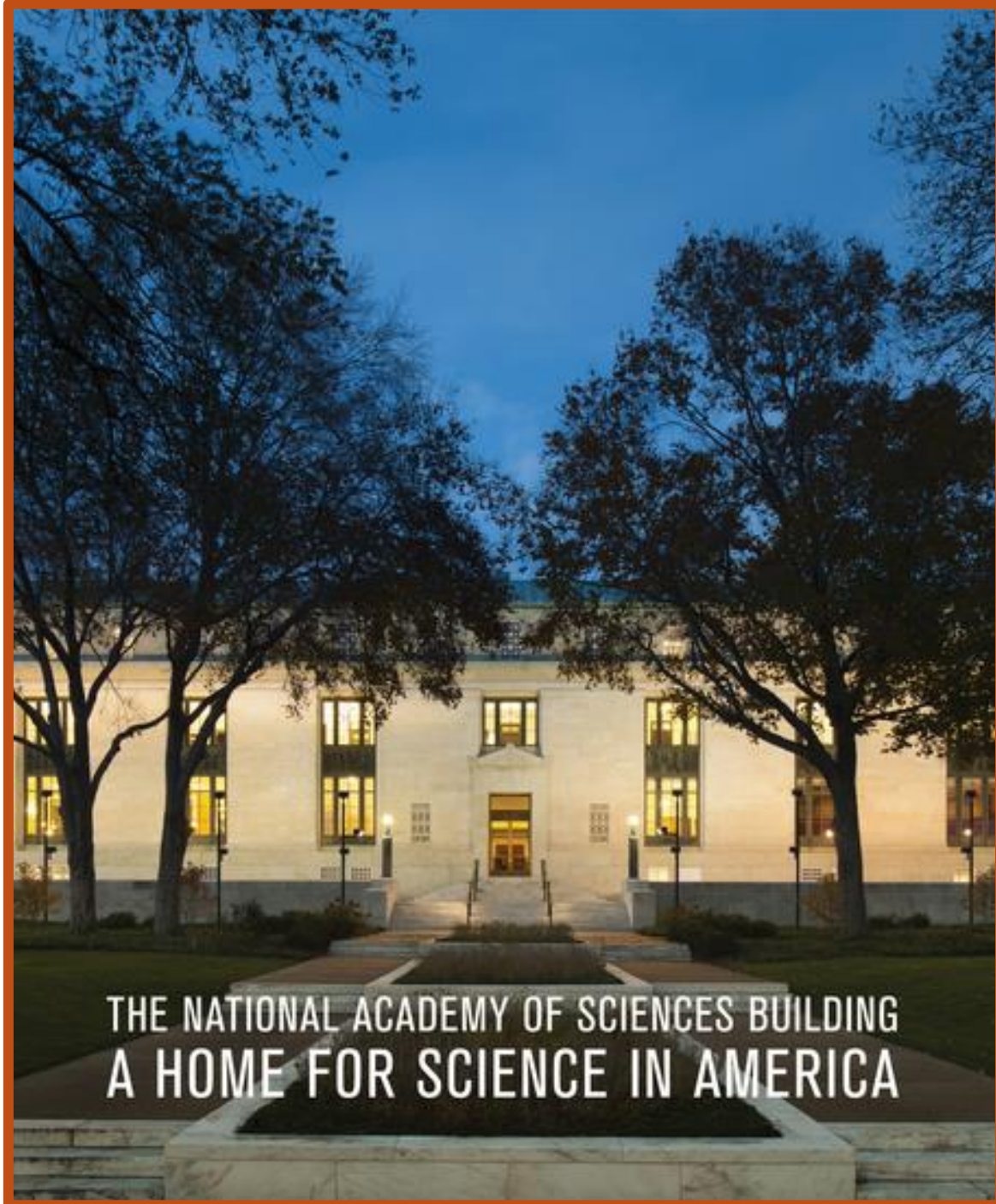
NOTE: Edits throughout: paragraphing, spacing, added for clarity. Underlining, **bolds**, added for emphasis.

What's happened to the National Academy of Sciences?

Bottom Line up Front:

**Located in the Swamp, they sank deep into The Swamp
and are now part of the Deep State!**

Proof of this follows...



THE NATIONAL ACADEMY OF SCIENCES BUILDING
A HOME FOR SCIENCE IN AMERICA

National Academy of Sciences Building

2101 Constitution Ave., N.W.

Washington, DC 20418

Tel.: 202-334-2000

NAS Great Hall



MY INTRODUCTION to the NAS:

Supporting the Titan 2 Missile and preparing Toxic Corridors,
then, Toxic Corridors for HELSTF.

Weather Support to the 390th Strategic Missile Wing (Titan 2) Davis-Monthan AFB, AZ 1976-1979

The U.S. Air Force maintained Titan II Intercontinental Ballistic Missiles (ICBMs) on Nuclear Alert for 24 years, from their initial deployment in 1963 until their final retirement in 1987. These missiles were stationed in underground silos near three Air Force bases in Arizona, Kansas, and Arkansas.

When missile maintenance involving movement of the propellants, (UDMH and N₂O₄) was required, a Propellant Transfer System operation, (PTS) was scheduled. A PTS had a possibility that toxic propellants might be accidentally spilled or released into the atmosphere. The Weather Unit prepared toxic corridor advisories for the Titan 2 maintenance crew.

Calculation of toxic corridors is a subject with which Webmaster Jon Kahler and I have direct experience, starting from our US Air Force Active-Duty days, later with WSMR and HELSTF.



SIDEBAR

One of the Missile Sites of the 390th Strategic Missile Wing is preserved south of Tucson; it is the **Titan Missile Museum**.



You can obtain tickets on-line and visit the above ground and below ground portions of the site.

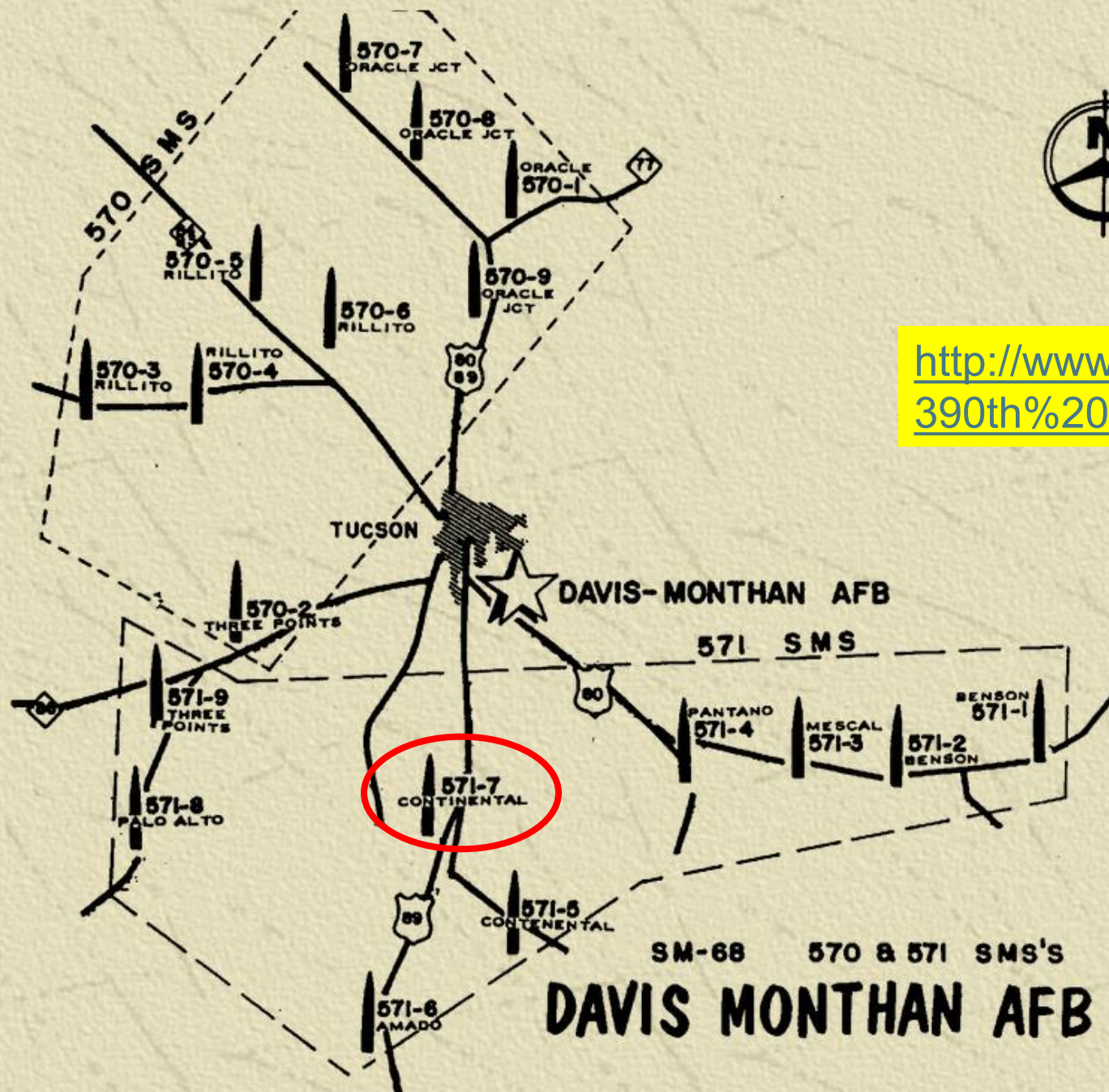
<https://titanmissilemuseum.org/> (RECOMMENDED)

When I was Weather Unit Commander at Davis-Monthan AFB, I took official visitors on tour of a missile site and an On-Alert missile several times.

I have also visited this specific site since it has become the Titan Missile Museum.

The missile itself is the training missile from Shepard AFB, where technical training took place before Airmen were sent to the Missile Wing. This missile never had the toxic propellants loaded.





<http://www.siloworld.net/390th%20SMW/390th%20SMW.htm>

Between 1963 and 1984, a complex hosting a 340,000 lb. Titan II missile with a 9-megaton nuclear warhead stood at the ready just 25 miles from Tucson, AZ. One of the six squadrons that operated the Titan II missile across the western United States, the 390th Strategic Missile Wing operated 18 silos in total. With the United State's entrance into the SALT treaty and having outlived their projected service life, the Titan II missiles were phased out of service starting in 1982. Under an agreement with the Soviet Union, site 571-7 was deactivated and saved as the single remaining example of a 24-hour alert liquid-fueled ICBM missile launch site.

<https://titanmissilemuseum.org/wp-content/uploads/2023/09/Topside-TMM.pdf>



The **glass viewing dome** was installed when this site became a museum. The reason behind its installation lies in the terms of the **Strategic Arms Limitation Treaty (SALT II)**. The treaty was signed between the US and the Soviet Union, and limited the number of nuclear heads that both countries could have. The dome allows the Russian satellites to check that the missile is unarmed. If you look at the Re-Entry Vehicle, you will notice a hole that allows to verify the harmlessness of the missile.

Chain Link perimeter fence

IRCS Communications Antenna

Delta-T pole for Toxic Corridors

Blast Door

Above Ground Museum and
Entrance Gate





WARNING

U.S. AIR FORCE INSTALLATION

**IT IS UNLAWFUL TO ENTER THIS AREA WITHOUT
PERMISSION OF THE INSTALLATION COMMANDER.**

(SEC 21, INTERNAL SECURITY ACT OF 1950; 50 U.S.C. 797)

**WHILE ON THIS INSTALLATION ALL PERSONNEL
AND THE PROPERTY UNDER THEIR CONTROL
ARE SUBJECT TO SEARCH.**



"LIBERTY BELL" OPERATIONS

When maintenance required the Reentry Vehicle (RV) to be dismounted from the missile, the RV was moved to Davis Monthan AFB, to the Hangar used by the 390th Strat Missile Wing.

This operation was called a "Liberty Bell," because of the size and shape of the RV.

Because the RV would temporarily be on Arizona highways for the trip to DM, and because DMAFB was within an hour's drive from Mexico, security of the RV during its movement was paramount.

There was a convoy, armed Security Police in SP Vehicles in front and back of the trailer truck moving the RV.

Overhead, the Rescue Detachment flew a UH-1 Air Cover Helicopter also containing 4 armed Security Policemen.



If there was the slightest weather problem forecast for the Liberty Bell, for instance a forecast of thunderstorms with areas of blowing dust restricting visibility, the Liberty Bell would be postponed to a time when such conditions would not jeopardize the movement of the RV, the Security Convoy, and its Air Cover.



On the truck, you can see the **Re-Entry Vehicle (RV)**. It was built by General Electric, and it housed the **W-53 9 Megaton thermonuclear bomb**. The RV's name refers the fact that the RV would exit and reenter Earth's atmosphere, traveling at 16,000 mph (25,000 km/h). The RV did not have a guidance system, but it had thrusters that would adjust the trajectory. The RV's shell would also erode upon reentry, protecting the W-53 bomb from damage.

When the RV separated from the Sustainer Stage, both traveled on a ballistic trajectory towards the target. Defending Radar Systems had a difficulties separating the RV signature from the Sustainer signature.



The **adapter** section paired the RV with the missile and it contained **cylinders filled with metallic balls**. These cylinders would explode upon reentry into Earth's atmosphere and above the target. The metallic balls would then be ejected around the RV in an effort to create a **decoy**, and confuse the enemy radar. The decoy mechanism was abandoned in 1975 but the cylinders remained.



The **silo door** is considered to be the most complex component of the sites. The door is 43 feet (12.5m) long, 64 feet (19.5m) wide, and 5 feet (1.5m) thick at the center. The silo door weighs anywhere from 699 to 749 tons. The door could open in only 20 seconds by rolling on 30in (76cm) wheels, which would slide on the two railroad tracks. The opening of the door exposed two large exhaust ducts on either side of the silo. These ducts were 150 feet (45.72m) deep and reached the bottom of the silo.



The Titan II Missile was completely fueled while sitting in the silo. The fuel (**Aerozine-50**) and the oxidizer (**Nitrogen Tetroxide**) would need to be removed and put back into the tanks at certain maintenance intervals. To do so, several pieces of equipment were used. The **tanker trailers** for both propellants would be needed to pump the propellants into their respective **conditioning and holding trailers**. Throughout the entire process, the pressure and temperature of the propellants would be monitored inside the **command trailer**.



Close to and outside the fence, on the right of the main access portal, you can see two other examples of soft and hard (pole-like) antennas. The one on the left, with the square base, is the soft **IRCS Antenna**. This antenna was designed for frequency diversity. This means that it could operate on many different frequencies at the same time. This antenna would deliver the order to launch, as it would be a direct link to Strategic Air Command (SAC) Headquarters.

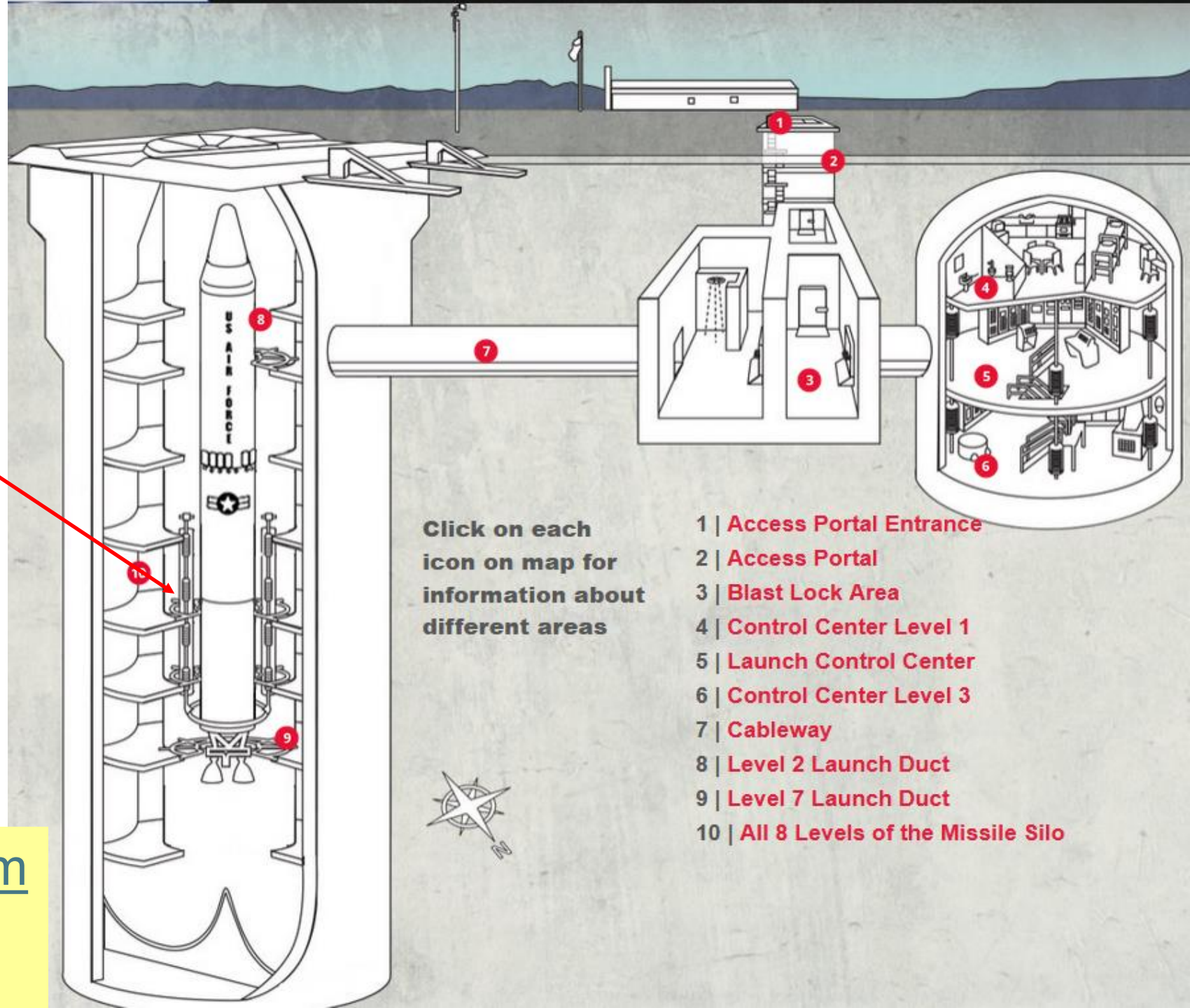


The 55-foot wooden **"Delta-T" pole** with the crows-nest on top was used together with an anemometer, which captured the speed of the wind and its direction. This was an important aspect, as weather conditions would need to be assessed before and during fueling and defueling the missiles highly toxic propellants. The Delta-T pole was also fitted with sensors to gauge the atmospheric air pressure and temperature, as these two factors were critical in the fueling and defueling process.



On Nuclear Alert, the missile was suspended on huge springs... sitting upon three missile support prongs.

The only thing keeping the missile in the silo was the Blast Door and the signal to launch, which allowed the propellants to ignite. The propellants were hypergolic.

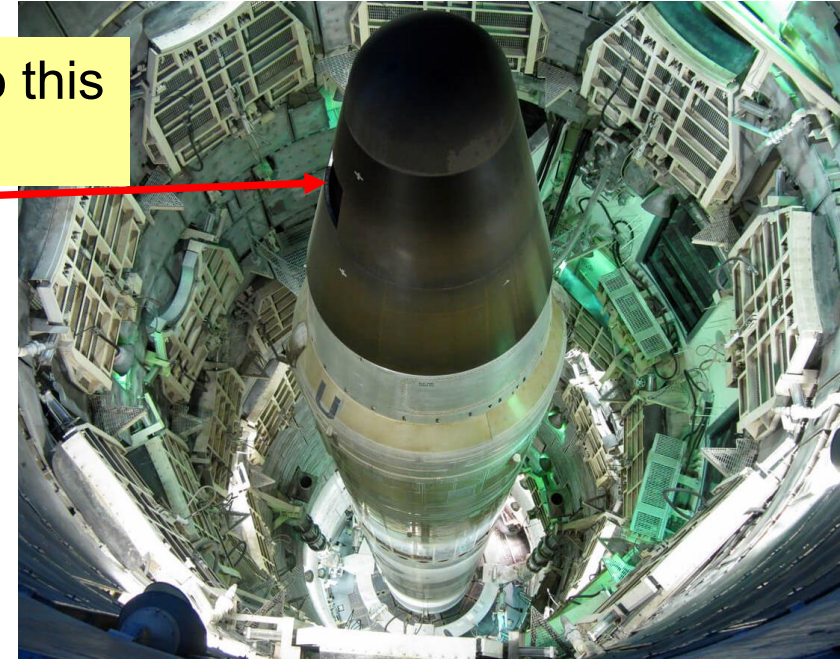


Click on each icon on map for information about different areas

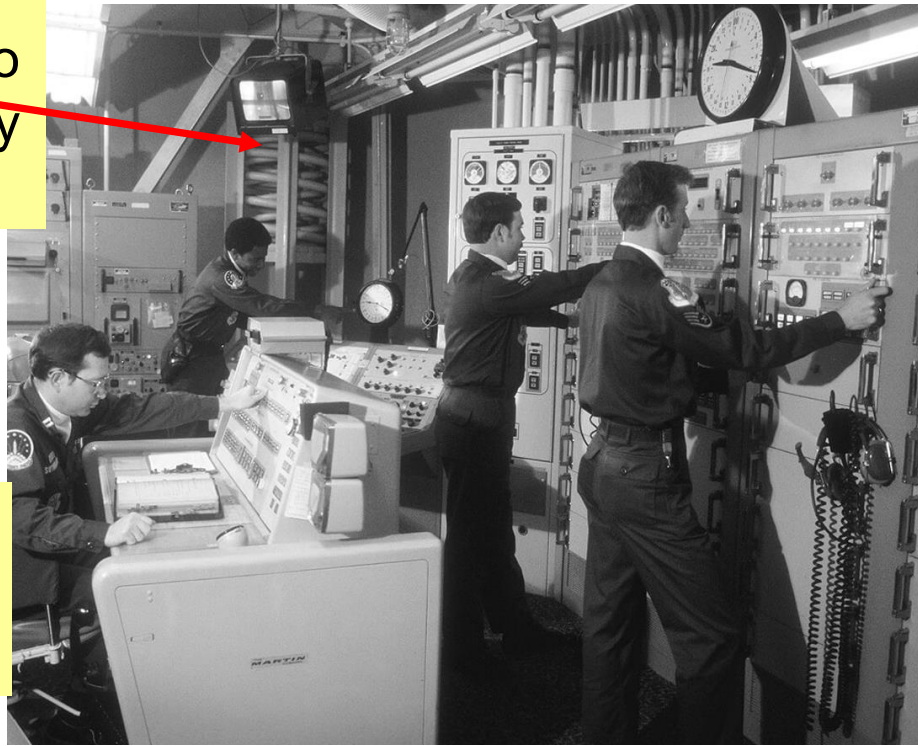
- 1 | Access Portal Entrance
- 2 | Access Portal
- 3 | Blast Lock Area
- 4 | Control Center Level 1
- 5 | Launch Control Center
- 6 | Control Center Level 3
- 7 | Cableway
- 8 | Level 2 Launch Duct
- 9 | Level 7 Launch Duct
- 10 | All 8 Levels of the Missile Silo

<https://titanmissilemuseum.org/museum/map/>

There is a slot cut into this RV to show it is inert.



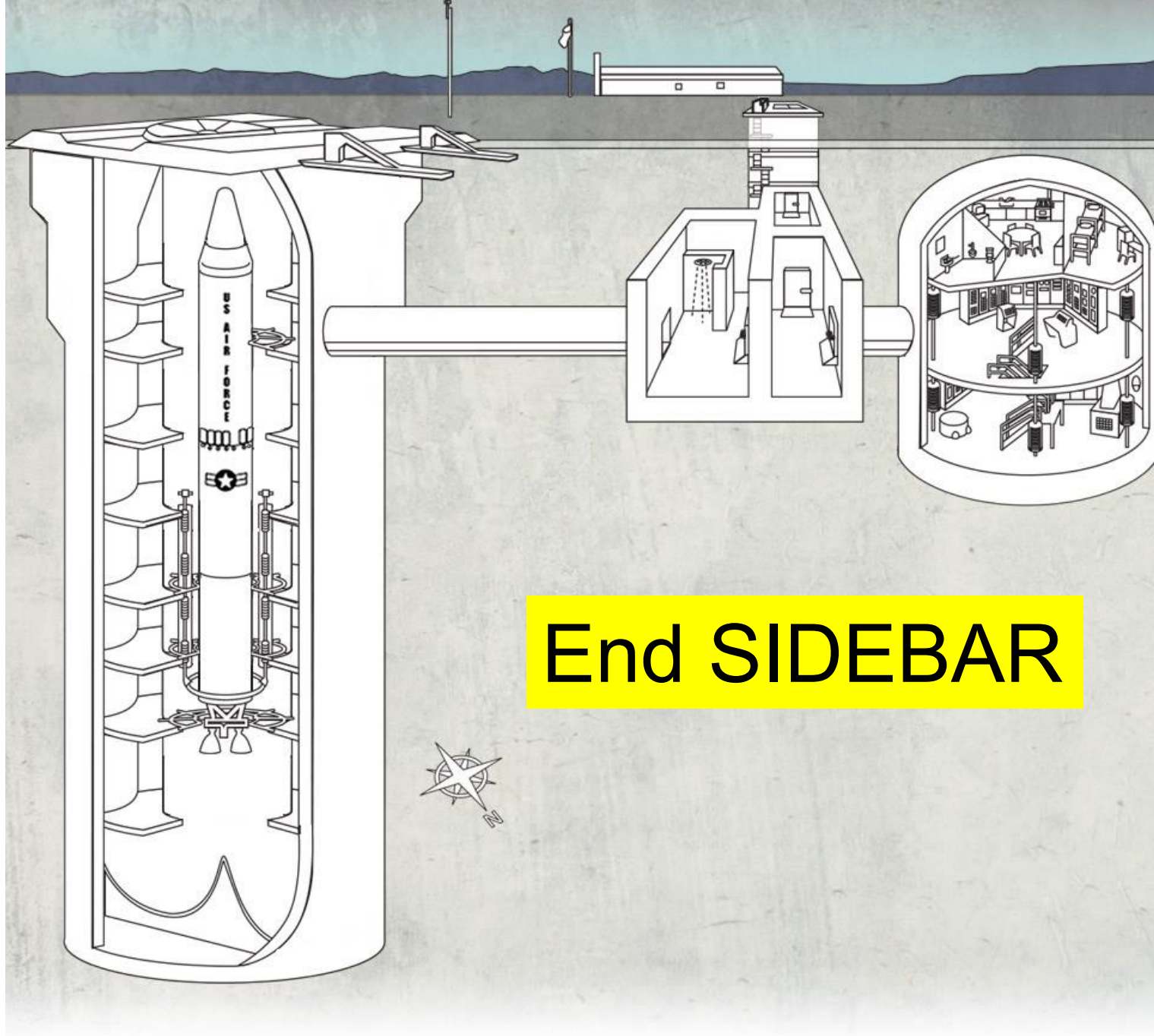
This part of the launch complex is on springs so it could ride out a nearby explosion.



Missile Combat Crew Commander running the checklist.



I got to look up into these motors during visits. You never forget.



End SIDEBAR

This video <https://www.youtube.com/watch?v=wVRA8NRr4Gg> describes the Propellant Transfer System operation. Plotting the Toxic Corridor prepared by the Weather Detachment is shown about the 3:12 mark

the MOST Dangerous Job in the Air Force... Feeding the Titan - Propellant Transfer Team



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3,289 views Feb 25, 2023 #615755145

Perhaps the most hazardous job associated with the Titan II program, the propellant transfer team. These brave men and women would "feed" the Titan II with fuel and oxidizer that was extremely toxic to the human body. Only the thin layer of their protective suit separated them from the deadly propellants they were transferring into the belly of the Titan.

Our Weather Maintenance troops needed access to the missile site in order to perform maintenance on the Weather Equipment. They were on the Human Reliability Program (HRP Critical). I was on HRP Control.



AWS/TR-80/003



CALCULATING TOXIC CORRIDORS

Jon P. Kahler, Capt, USAF

AWS/DNXP

Scott AFB, IL 62225

Robert G. Curry, Lt Col, USAF

AFGWC/DOP

Offutt AFB, NE 68113

Raymond A. Kandler, Maj, USAF

Det 24, 26 WS

K.I. Sawyer AFB, MI 49843

November 1980

Calculation of Titan 2 missile toxic corridors is a subject with which Webmaster Jon Kahler, and I, have direct experience, from our US Air Force Active-Duty days.

Approved For Public Release; Distribution Unlimited

**AIR WEATHER SERVICE (MAC)
Scott AFB, Illinois 62225**

81 4 7 045

AD A101207

DTIC FILE COPY

AWS TR 80-003 ABSTRACT:

“Methods for defining evacuation areas for accidental spills of toxic chemicals are presented. These spills can present serious health hazards to people exposed to excessive vapor concentrations downwind of the accident. An empirical diffusion equation is used to calculate the downwind hazard distance. The width of the toxic corridor specified in angular degrees centered along the mean wind direction, is based upon the variability of the wind direction. Flexibility in estimating toxic corridor evacuation areas is allowed through a choice of four different methods involving the use of tables, nomograms, and a programmable calculator. Appendices present worksheets, example problems procedures for determining meteorological inputs, a procedure for determining evaporative source strength, and other items.”

PREFACE

“The Air Weather Service (AWS) is tasked by AFR 355-1, 14 May 1979, (para 2-12g) to provide diffusion predictions for toxic chemicals released to the atmosphere. This technical report presents several forms of a simple technique for use by AWS detachment forecasters for determining toxic corridors in the event of an accidental spill or release to the atmosphere of a toxic chemical. These techniques are largely based upon AWS Pamphlet 105-57, "Calculation of Toxic Corridors," (which has been rescinded), AWSTR 176, "Diffusion Forecasting for TITAN II Operations," and AFGL Report, "The Ocean Breeze and Dry Gulch Diffusion Program, Volume II." Additional information can be found in AWSTR 214, "Guide to Local Diffusion of Air Pollutants.”

PREFACE (Cont'd)

These references and others pertaining to the Ocean Breeze and Dry Gulch programs and toxic corridor forecasting are listed in the references.

The basic technique of using toxic corridor tables calculated from the Ocean Breeze and Dry Gulch equation has been in use for nearly two decades by weather units supporting TITAN missile operations. During that period slight modifications and refinements to the procedures have been made but the basis for the technique has remained the same. This technical report continues the use of the above equation to determine toxic corridor lengths and contains additional, alternative approaches for arriving at the same answer. This additional flexibility should allow AWS forecasters the opportunity to select the means of making these calculations that is best suited to their particular situation.”

The authors of AWSTR 80-003 depended on the National Academy of Science's Committee on Toxicology to define the critical concentrations of the fuel and oxidizer used in the Titan 2 ICBM. These are the concentrations, the **Public Exposure Limits**, which, to avoid harming the public, could not be exceeded.

This involved knowing the **source strength** of the fuel or oxidizer in case of accidental release, and other data (below).

The rate of diffusion of the fuel or oxidizer into the atmosphere (to safe concentrations) is based on the stability of the surface layer of the atmosphere, characterized by the 16m – 2m Temperature Difference. At each Titan 2 missile site, there was a set of meteorological instruments to measure directly the **<16M – 2M> temperature difference, one of the inputs needed to solve the Ocean-Breeze Dry Gulch Equation, often OBDG.**

Each Missile Site also had an airfield anemometer to measure **the downwind direction and the range of wind direction variability.**

The weather unit's maintenance section made sure that these instruments were calibrated and in good working order prior to a PTS operation.

Safety procedures required knowledge of the critical concentration not to be exceeded if a toxic spill occurred during the PTS, normally the **PEL**. Air Weather Service got this from the National Academy of Sciences Committee on Toxicology.

On request, the weather unit provided the Toxic Corridor Advisory to the Missile Unit PTS team. If the toxic corridor extended into public land, for instance a school, hospital, retirement village, or residential area, the PTS team would not conduct the operation until the calculated Toxic Corridor did NOT cross into areas such as these.

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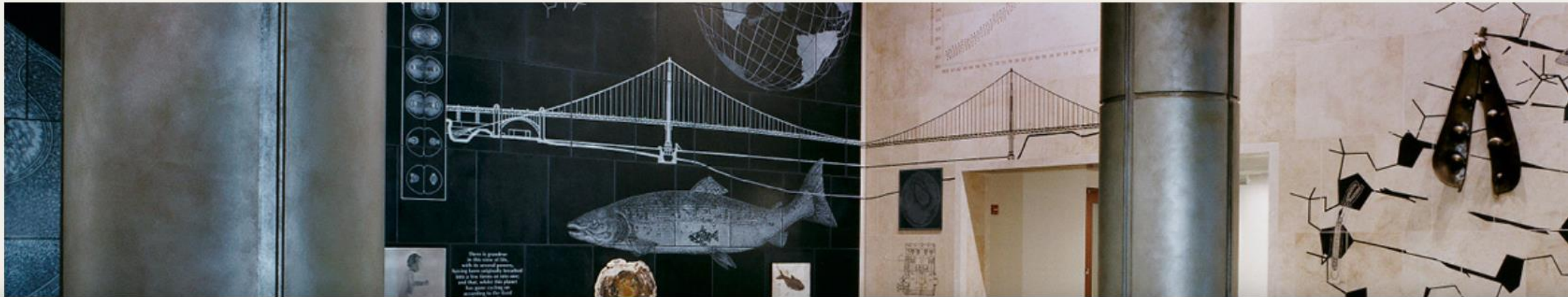
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Created to Advise the Government

The National Academies of Sciences, Engineering, and Medicine (The National Academies) provide independent, objective advice to inform policy with evidence, spark progress and innovation, and confront challenging issues for the benefit of society. [Learn more about our history.](#)

As the operating and principal programmatic arm of the National Academies of Sciences, Engineering, and Medicine, the National Research Council has established these guiding principles:

Our Vision

A nation and a world that rely on scientific evidence to make decisions that benefit humanity.

Our Mission

The National Academies provide independent, trustworthy advice and facilitate solutions to complex challenges by mobilizing expertise, practice, and knowledge in science, engineering, and medicine.

Our Core Values

Independence, Objectivity, Rigor, Integrity, Inclusivity, Truth

Later, you will get the opportunity to assess this.



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Because membership is achieved by election, there is no membership application process. Although many names are suggested informally, only Academy members may submit formal nominations. Consideration of a candidate begins with his or her nomination, followed by an extensive and careful vetting process that results in a final ballot at the Academy's annual meeting in April each year. Currently, a maximum of 120 members may be elected annually. Members must be U.S. citizens; non-citizens are elected as international members, with a maximum of 30 elected annually.

Members are affiliated with a section (scientific discipline) in one of six Classes:

- Physical and Mathematical Sciences
- Biological Sciences
- Engineering and Applied Sciences
- Biomedical Sciences
- Behavioral and Social Sciences
- Applied Biological, Agricultural, and Environmental Sciences



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- Biomedical Sciences
- Behavioral and Social Sciences
- Applied Biological, Agricultural, and Environmental Sciences

Here is the key weakness. NAS does not recognize Earth Sciences as a Class of Sciences with which it should have expertise. **Geology, Meteorology, and Climate are not represented.** NAS is profoundly ignorant here. This helps explain their ignorant pronouncements we've seen... we'll see more. "They don't know what they don't know."

<https://www.nasonline.org/about-the-nas/>



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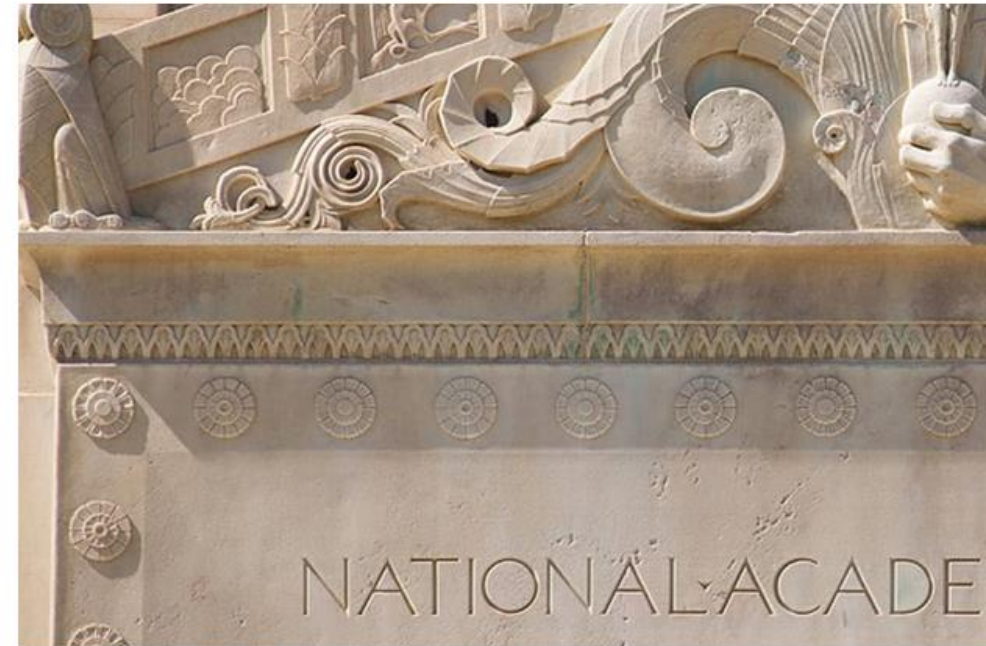
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Mission

Our mission is:

- Recognizing and elevating outstanding science
- Fostering the broad understanding of science
- Overseeing the National Research Council in producing and promoting the adoption of independent, authoritative, trusted scientific advice to the government for the benefit of society



Committee on Toxicology

s

- About
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Established in 1947, the Committee on Toxicology has provided oversight of studies on environmental and occupational health issues bearing on the mission of the Department of Defense. Types studies undertaken by ad hoc committees include reviews of research programs, site-specific environmental health assessments, and development of occupational exposure guidelines for military-specific scenarios. The committee is comprised of nationally recognized experts in toxicology, infectious disease, epidemiology, industrial hygiene, occupational health, and risk assessment.

SIDEBAR:

At HELSTF, we used the MIRACL device to create Duterated (Duterium) Hydrogen Fluoride, DF, to generate the MIRACL lasing wavelength of 3.8 μm



MIRACL
Mid Infra Red Advanced Chemical Laser



SLBD
SEA LIGHT Beam Director

AMRL-TR-71-120

PAPER NO. 16

GUIDES FOR SHORT-TERM EXPOSURES OF THE PUBLIC
TO AIR POLLUTANTS*

Frank G. Favorite
Lawrence M. Roslinski
and
Ralph C. Wands

National Academy of Sciences
Washington, D. C.

AMRL-TR-71-120 is the report number for the Proceedings of the 2nd Annual Conference on Environmental Toxicology, held in Fairborn, Ohio, on August 31 and September 1–2, 1971. The conference was organized by the Aerospace Medical Research Laboratory (AMRL) at Wright-Patterson Air Force Base

At HELSTF, we used the MIRACL device to create Duterated (Duterium) Hydrogen Fluoride, DF, to generate the MIRACL (Mid Infra Red) lasing wavelength of 3.8 um

The Committee, recognizing the extreme hazard to health of HF, leaned conservatively in making the following recommendations:

STPL

10, 30, and 60 min.	4 ppm
5 hrs. /day, 3-4 days/mo.	1 ppm

PEL

10 min.	10 ppm
30 and 60 min.	5 ppm

At HELSTF, we used on-site measurements of $\langle T(16m) - T(2m) \rangle$ and wind direction and wind direction variability> plus the diffusion tables from the Ocean-Breeze Dry-Gulch Equation to produce toxic corridors for the two toxic oxidizers used at HELSTF, F2 and NF3. We got **the Public Exposure Limits (PEL)** from the National Academy of Sciences Committee on Toxicology.

END SIDEBAR

The NAS and the Committee had been doing so well, but then the seemingly inevitable environment of The DC Swamp took over the National Academies...which you can see below:

SEE ALSO...

National Academies' Climate Resources

From more extreme weather to more frequent and intense wildfires, the climate is changing in ways that pose increasing risks to people and ecosystems. Explore the National Academies' expert advice to help the nation understand, prepare for, and limit future climate change.

[Visit the Resources Page >>](#)

No, National Academies, extreme weather is NOT increasing, nor are fires increasing, IF YOU LOOK UP the DATA.

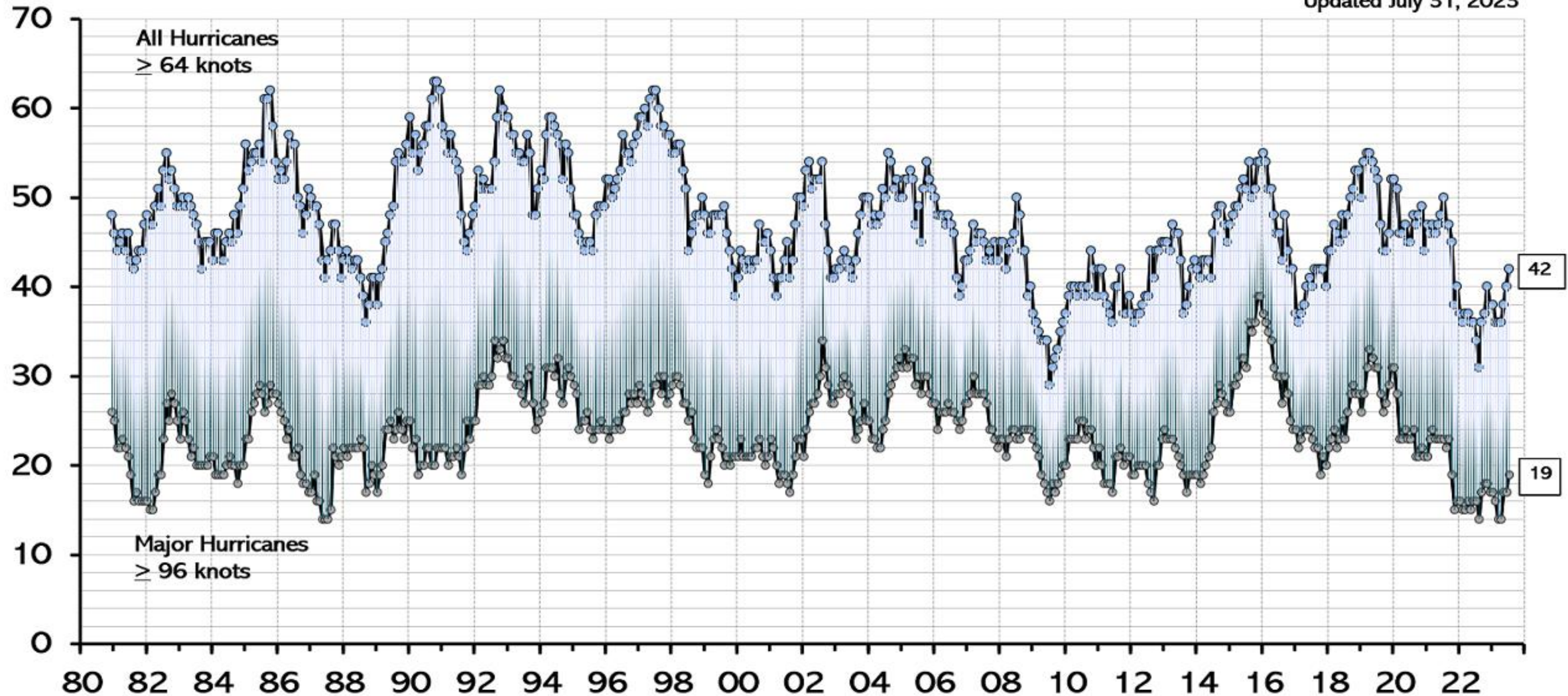
Yes, the National Academies say with a straight face, we humans can "limit future climate change."

The Center for Climate and Energy Solutions: “Scientists...are certain the intensity and severity of hurricanes will continue to increase.”

Global Major Hurricane Frequency – 12 month running sums

@RyanMaue

Updated July 31, 2023



Salient Points:

Ryan Maue has been keeping track of Hurricanes, Typhoons, and Tropical Storms. His methodology uses modern satellite detection and wind speed determinations of the number and strength of these systems since 1980.

Examination of Maue's charts shows an inter-decadal variability clearly at odds with the monotonic increase in <CO₂> ongoing since about 1800.

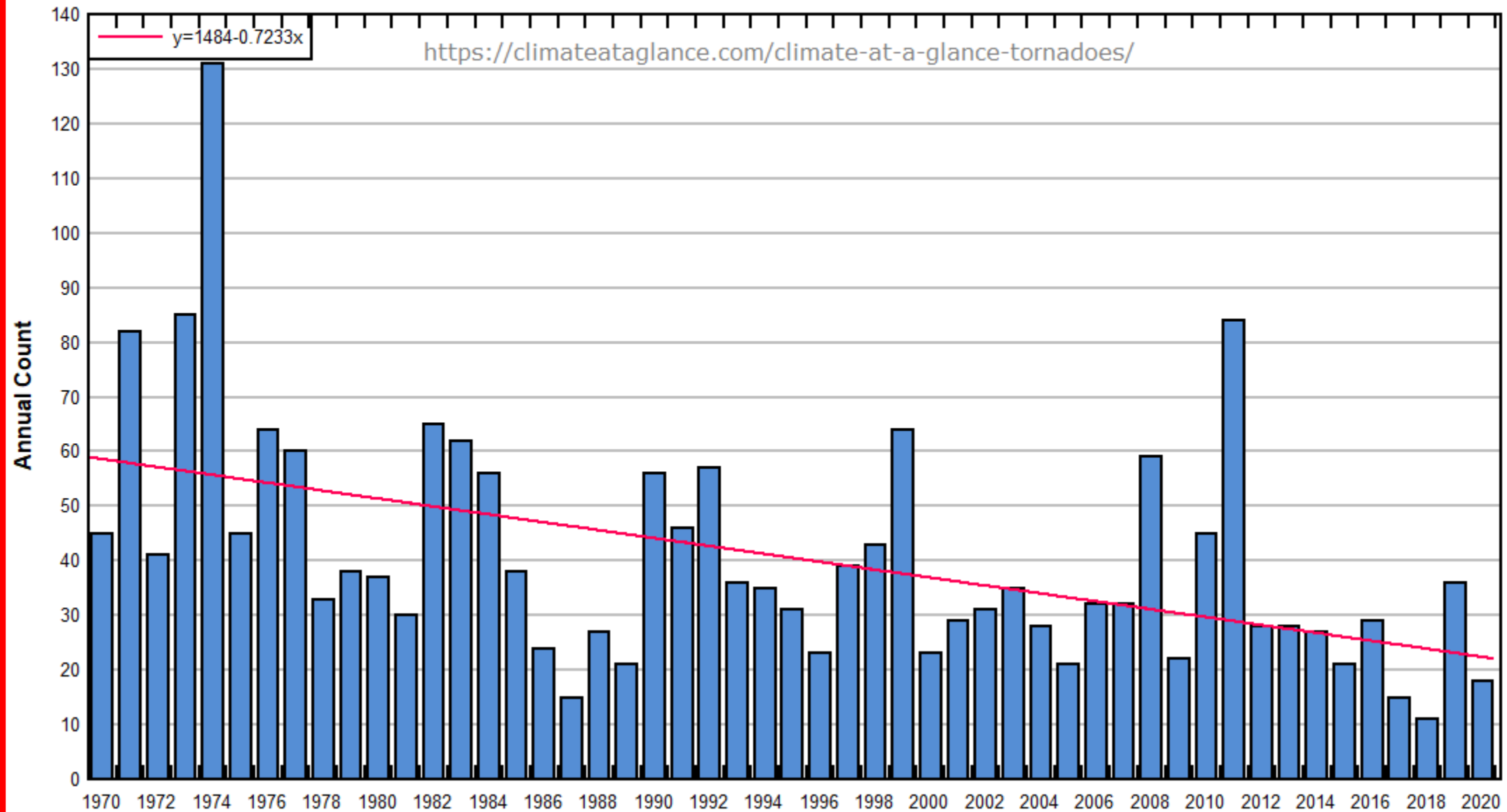
Alarmist claims that the intensity of severity of hurricanes is increasing is shown to be false.

Clearly, the alarmists at the National Academies have no idea what they are talking about.

Ryan Maue's data and time series charts clearly falsify the National Academies' claims.

U.S. Annual Count of Strong to Violent Tornadoes (F3+) 1970-2020

Data Source: NOAA/NWS Storm Prediction Center



Salient Points:

The opening paragraphs from the [Executive Summary](#) from the Fourth National Climate Assessment contain these words, “The last few years have also seen record-breaking, climate-related weather extremes...”

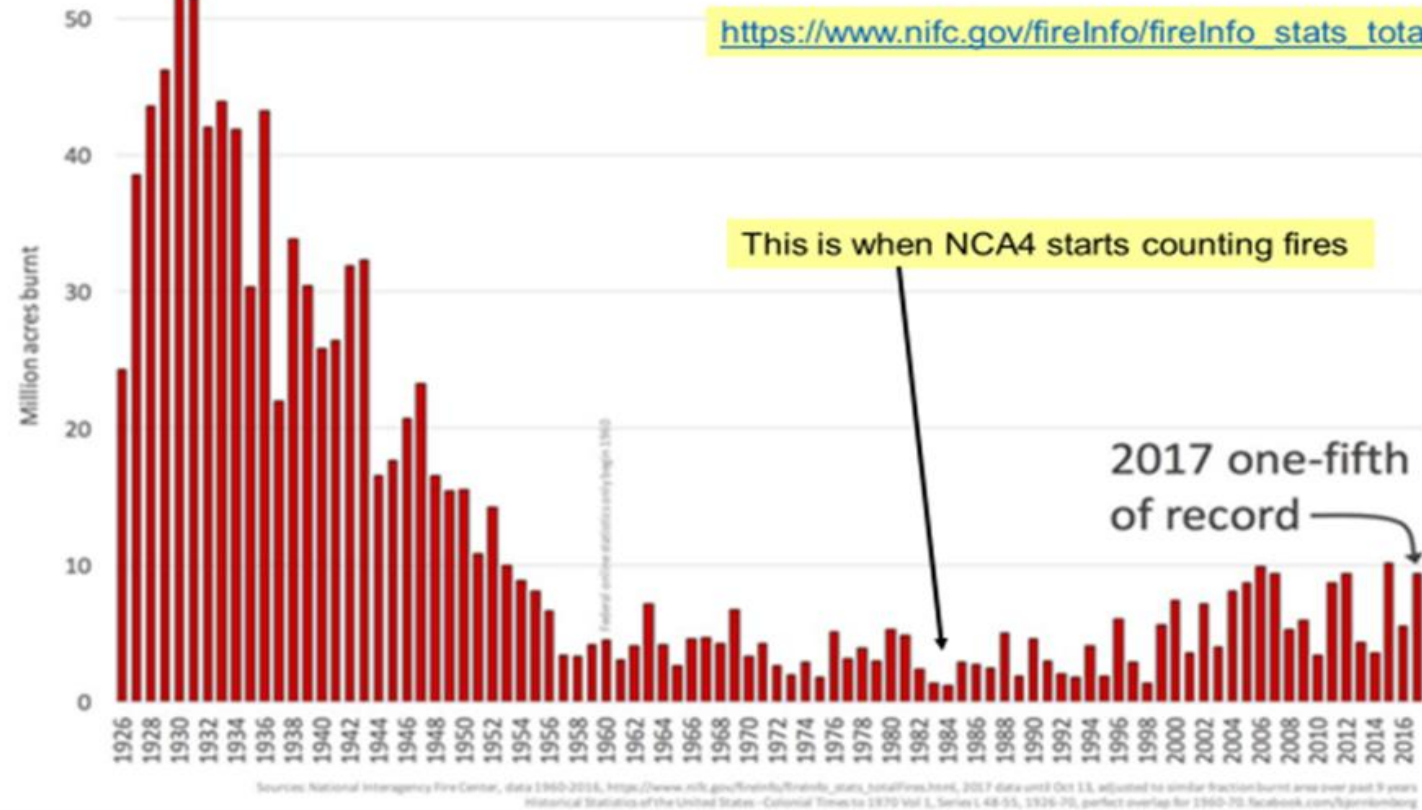
The National Academies also proclaim, “more extreme weather.”

Sensing technologies and increasing numbers of citizens now allow us to detect many weak rotating local storms that were not able to be sensed in the past.

The deployment in the USA of Doppler Weather Radar, combined with the increasing number of citizens able to sense and report rotating local storms and the damage they cause, has allowed us to know for sure that the number of strong to violent local storms and Tornadoes has significantly **decreased** over the USA.

The alarmist claims of the National Academies are plainly wrong.

US Forest Area Burned 1926-2017



This is a plot Bob Endlich captured around 2017 from the National Interagency Fire Center which lists, in bar chart format, the number of reported acres burned on an annual basis, from 1926-2017. Sierra Club's characterization of 2021's forest fire losses as a little over 7 million acres lost as "horrific," given the burn acreage around 50 million acres in the years around 1930, shows a stunning lack of critical thinking and scholarship.

Salient Points:

The National Academies climate alarmists state that US Forest Fires are 'more frequent and intense' because of Human-Caused, CO2-Fueled global warming..

In 2021 the Sierra Club said, "2021: Another horrific fire season in the West," The National Interagency Fire Center, NIFC, listed the 2021 burned acreage as 7,125,643 acres burned.

The chart shows that 2021's ~7 million acres burned is about 23% of the acreage which burned around 1930.

NIFC also reported at <https://www.nifc.gov/fire-information/statistics/wildfires> "Prior to 1983, the federal wildland fire agencies did not track official wildfire data using current reporting processes. As a result, there is no official data prior to 1983 posted on this site."

This is either obfuscation or a lie, depending on how you view it. In the 20th Century the US Federal Government had a good wildfire reporting system, good enough for the New York Times to report, on 9 October 1938, Forest Fires <in 1937> burned, "one every three minutes."

The National Academies is organizing a workshop to explore innovative ways AI can enhance climate science and support decision-making for resilience and mitigation. The workshop will identify critical applications where AI can **inform climate action** at speed and scale, consider how AI's broader societal impacts affect approaches for addressing climate change, and provide a forum for cross-sectoral dialogue.

Possible topics of discussion may include: emerging AI tools to advance climate modeling and resilience efforts, key needs for climate information at local and national levels, and ways AI can transform climate science into actionable information for decision-makers.

I think the National Academies' notions that they, using AI, can "inform climate action at speed and scale" is fatuous, false, and likely to turn tax money into wasted effort such as Germany's closure of perfectly good nuclear power plants in pursuit of low CO2 electricity from Wind and Solar.

The following graphics come from the first erroneous NAS book I found, in these Presentation Graphics:
https://casf.me/wp-content/uploads/2025/09/PDF_Proof-that-Carbon-Dioxide-does-not-control-Earths-Temperature-20-Sep-2025-edited-23-Sep-2025.pdf slides 99-103

The National
Academies of
SCIENCES
ENGINEERING
MEDICINE

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Advancing the Science of Climate Change (2010)

Chapter: 2 What We Know About Climate Change and Its Interactions with People and Ecosystems

Advancing the Science of Climate Change (2010)

Chapter: 2 What We Know About Climate Change and Its Interactions with People and Ecosystems

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The following slides contain quotes from this book, and examples of the blatant falsehoods it contains.

<https://casf.me/proof-that-carbon-dioxide-does-not-control-earths-temperature/>

CHAPTER TWO

What We Know About Climate Change and Its Interactions with People and Ecosystems

Over the past several decades, the international and national research communities have developed a progressively clearer picture of how and why Earth's climate is changing and of the impacts of climate change on a wide range of human and environmental systems. Research has also evaluated actions that could be taken—and in some cases are already being taken—to limit the magnitude of future climate change and adapt to its impacts. In the United States, a series of reports by the U.S. Global Change Research Program (USGCRP, also known as the Climate Change Science Program from 2001 to 2008) have synthesized the information specific to the nation, culminating in

This book: **Advancing the Science of Climate Change**

Advancing the Science of Climate Change
(2010) National Academies of Sciences,
Engineering, and Medicine. 2010. Advancing the
Science of Climate Change. Washington, DC:
The National Academies Press.
<https://doi.org/10.17226/12782>.

Book was published in 2010. Barack Obama was President from 2009-2017.

More about the book in the following slides.

Get This Book

CHAPTER TWO
What We Know About Climate Change and Its Interactions with People and Ecosystems

”Natural climate variability leads to year-to-year and decade-to-decade fluctuations in temperature and other climate variables, as well as substantial regional differences, but **cannot explain or offset the long-term warming trend.**”

*
(Next Slide)

PINK ARROWS SHOW these statements are BS!

Data plot from Rutgers Snow Lab shows INCREASING snow cover

”Global warming is closely associated with a broad spectrum of other changes, such as increases in the frequency of intense rainfall, **decreases in Northern Hemisphere snow cover** and Arctic sea ice, warmer and

Science Home News Journals Topics Careers

So why did I call them Bond Cycles?

SHARE RESEARCH ARTICLE

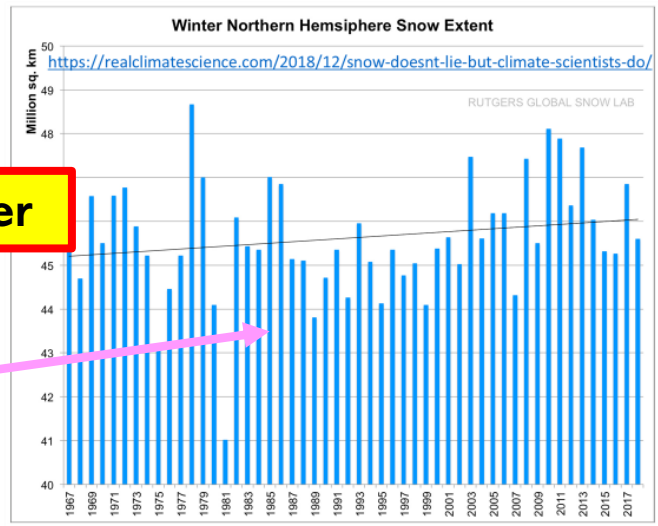
A Pervasive Millennial-Scale Cycle in North Atlantic Holocene and Glacial Climates

Gerard Bond, William Showers, Maziat Cheseby, Rusty Lotti, Peter AImasi, Peter deMenocal, Paul Prior...

+ See all authors and affiliations

Science 14 Nov 1997; Vol. 278, Issue 5341, pp. 1257-1266 DOI: 10.1126/science.278.5341.1257

Bond, et al find thousand-year cycles; published in SCIENCE. Hayhoe can't find any cycles. THIS IS CLIMATE EDUCATION?



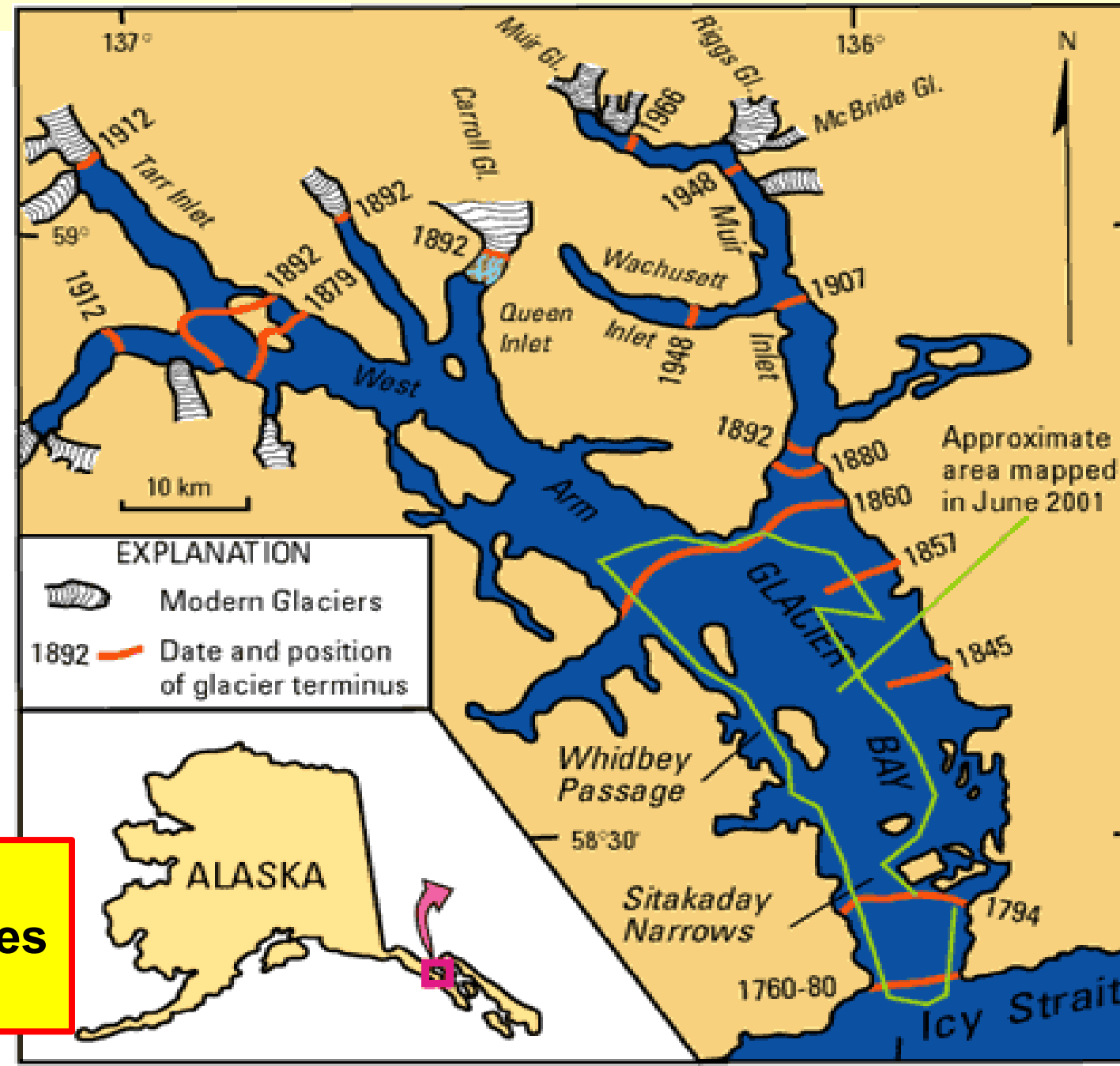
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US Geological Survey map of Glacier Bay showing how glacial melt occurred over time.

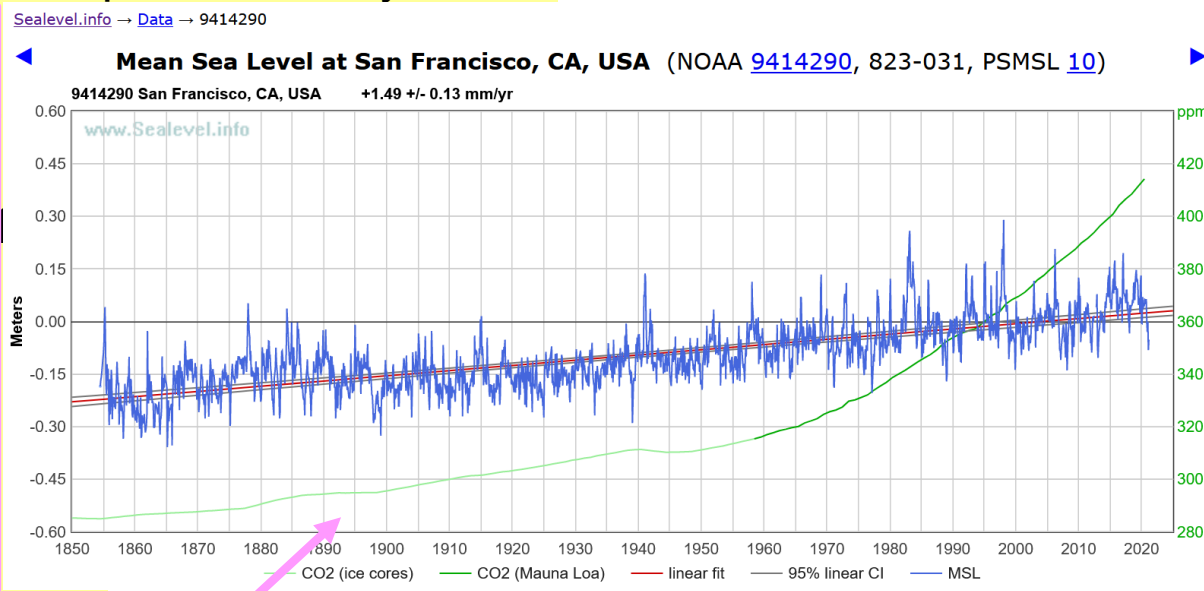
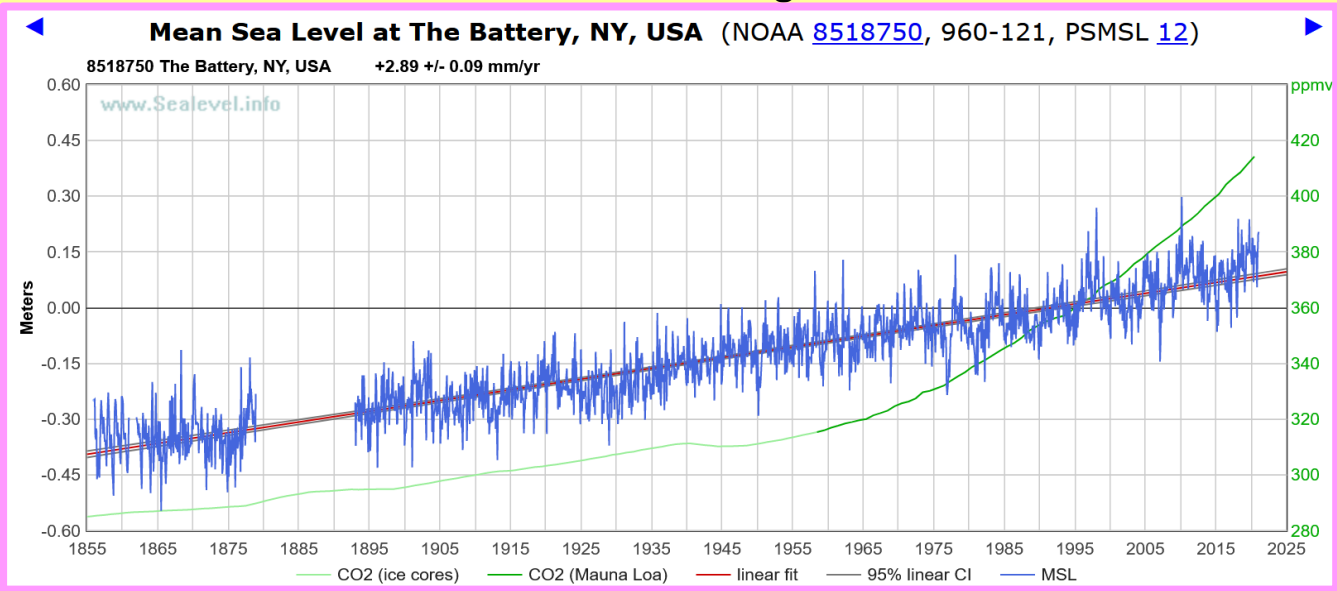
Glacier Bay melt map shows glaciers have been melting back from mouth of Glacier Bay since 1760-1780, i.e., since before Washington was US President. Shows long-term warming.

Explains the mystery of the long-term warming National Academy of Sciences could not find.

<http://soundwaves.usgs.gov/2001/07/glacierbaymap.gif>



CHAPTER TWO
What We Know About Climate Change and Its Interactions with People and Ecosystems



•Global warming is closely associated with a broad spectrum of other changes, such as increases in the frequency of intense rainfall, decreases in Northern Hemisphere snow cover and Arctic sea ice, warmer and more frequent hot days and nights, **rising sea levels**, and widespread ocean acidification.

The green curve is <CO2> over time.

One Result of my Internet Search on *Notion that present climate will lead to an “existential threat” to human life*

<https://www.nap.edu/read/12782/chapter/5>

Advancing the Science of Climate Change (2010)

Chapter: 2 What We Know About Climate Change and Its Interactions with People and Ecosystems

Get This Book

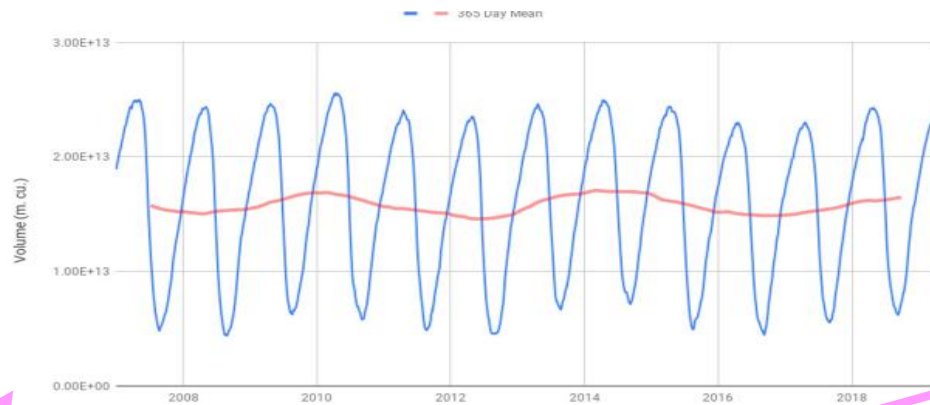
CHAPTER TWO

What We Know About Climate Change and Its Interactions with People and Ecosystems

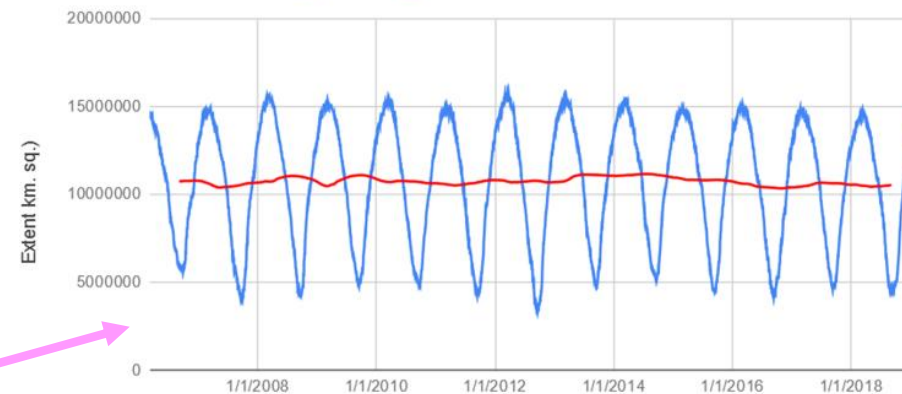
<https://realclimatescience.com/2019/04/arctic-sea-ice-continues-to-grow-2/>

<https://docs.google.com/spreadsheets/d/1PzhPraBFy-kkJwzIH7CjNlySbkK4xweXSvQdFMnUSw/edit#gid=136189330>

DMI Arctic sea Ice Volume 2008-2019



MASIE Arctic Sea Ice Extent 2008-2018



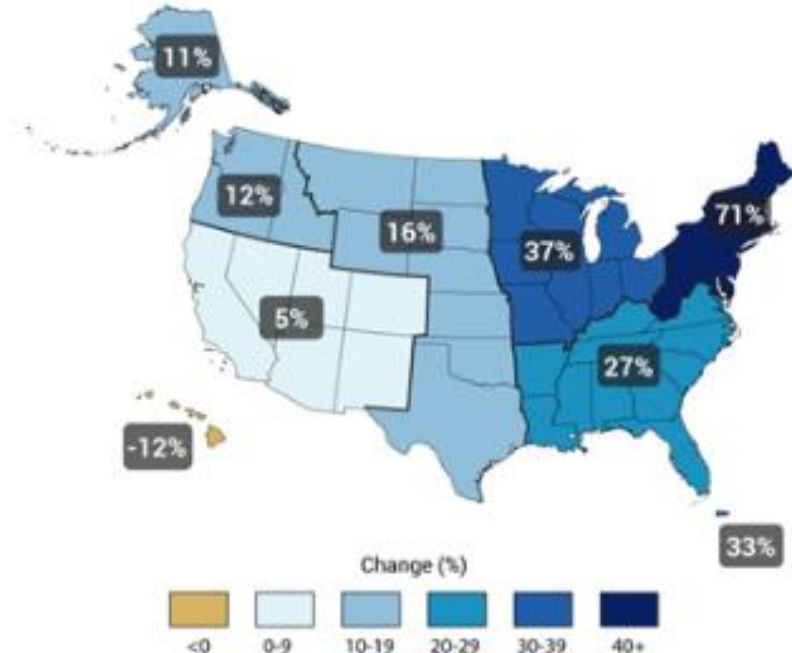
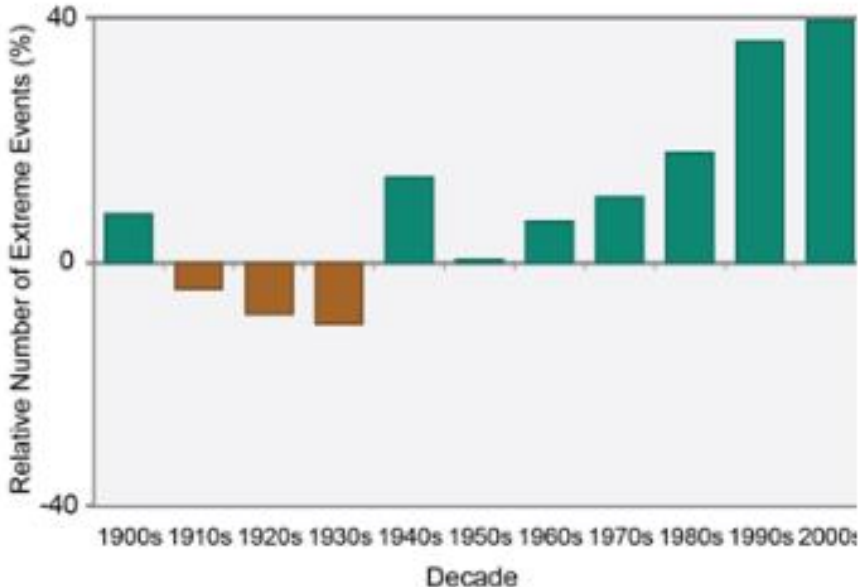
•Global warming is closely associated with a broad spectrum of other changes, such as increases in **the frequency of intense rainfall**, decreases in Northern Hemisphere snow cover and **Arctic sea ice**, warmer and more frequent hot days and nights, rising sea levels, and widespread ocean acidification.



<http://casf.me/recent-downpours-increasing-never-mind-its-another-alarmist-claim-demolished-by-careful-observation/#more-1497>

The apparently dramatic increases in precipitation that are shown in the top portion of this figure are the result of the shielded rain and snow gages that were installed by the National Weather Service during the modernizations begun in the 1990s.

Observed U.S. Trend in Heavy Precipitation



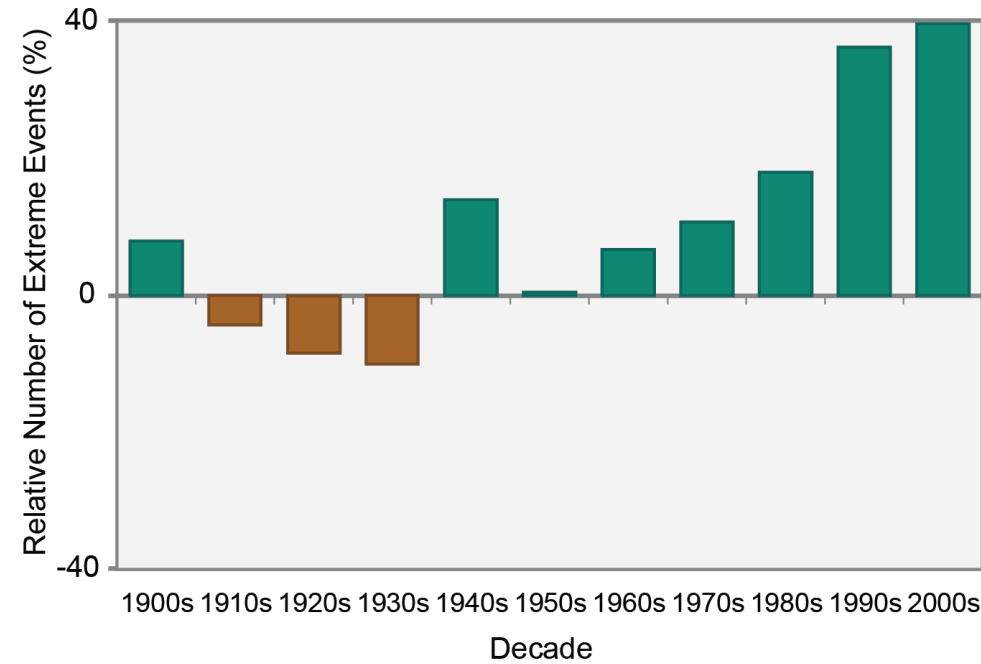
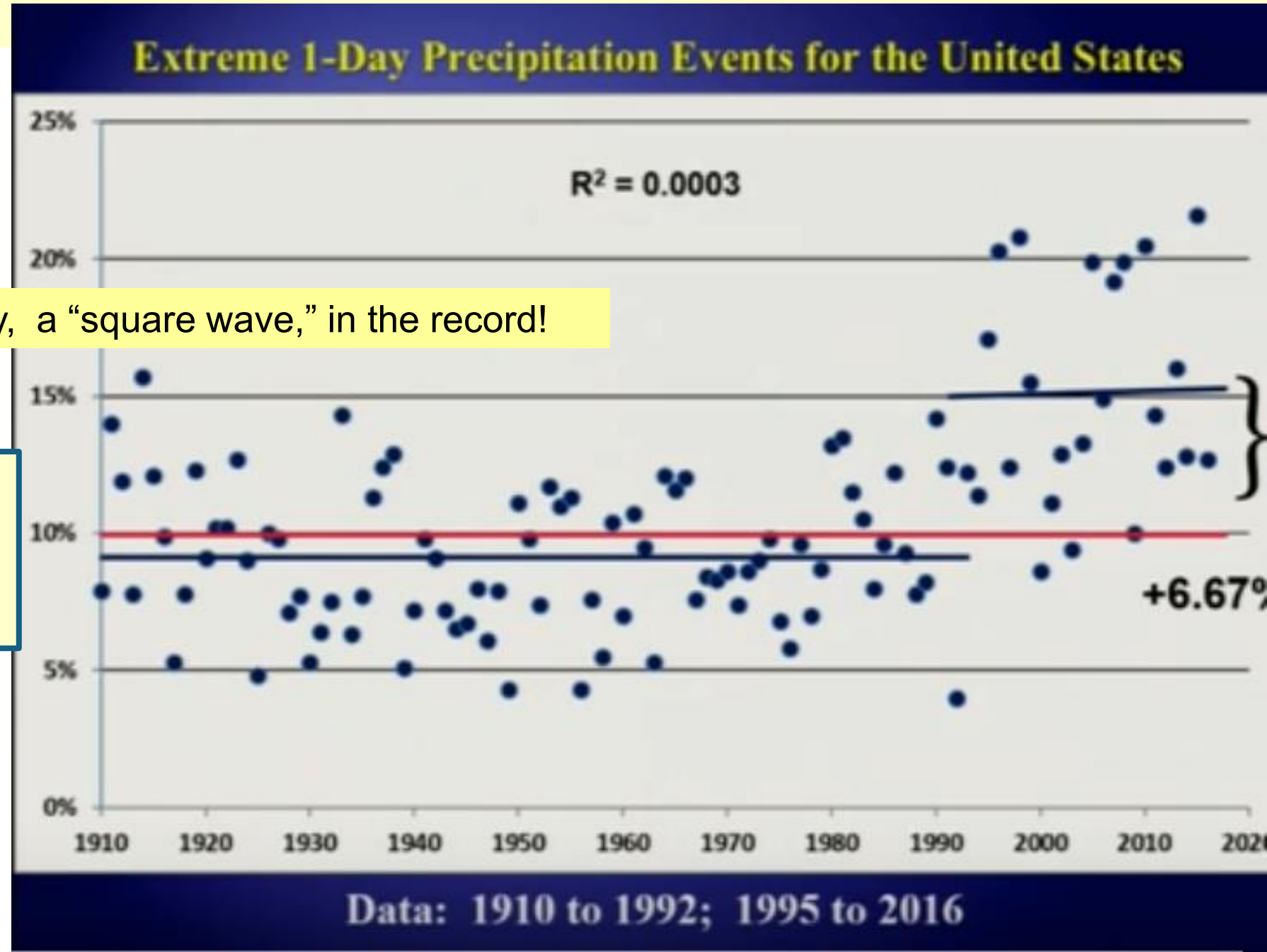


Figure 2.18: Observed Change in Very Heavy Precipitation

<https://casf.me/recent-downpours-increasing-never-mind-its-another-alarmist-claim-demolished-by-careful-observation/>

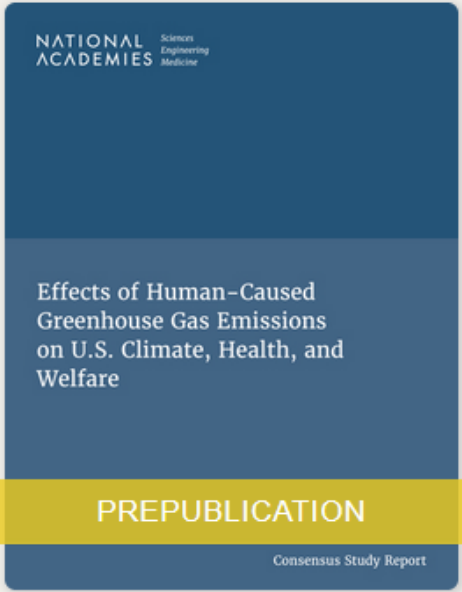


In Blue, the Jump Discontinuity, a “square wave,” in the record!

This chart, others, came from my colleague from the International Climate Change Conferences, David Legates

This is the SECOND National Academies book I found, containing serious errors. CO2 emissions don't cause adverse Climate, Health and Welfare changes.
<https://casf.me/proof-that-carbon-dioxide-does-not-control-earths-temperature/>

 Consensus Study Report



[VIEW LARGER COVER](#)

Effects of Human-Caused Greenhouse Gas Emissions on U.S. Climate, Health, and Welfare

(2025)

- Download Free PDF
- Read Free Online
- Pre-order Paperback: \$27.00

The scientific community has been studying the question of how human-caused emissions of greenhouse gases are affecting the climate for well over a century. Much is known today,

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Effects of Human–Caused Greenhouse Gas Emissions on U.S. Climate, Health, and Welfare

Consensus Study Report

<https://townhall.com/columnists/franke-lasee/2025/09/18/the-nas-climate-report-a-biased-rush-to-rubber-stamp-costly-regulations-n2663542>

Effects of Human-Caused
Greenhouse Gas Emissions
on U.S. Climate, Health, and
Welfare

More, in Frank Lasee's post.

Frank Lasee'

<https://townhall.com/columnists/franke-lasee/2025/09/18/the-nas-climate-report-a-biased-rush-to-rubber-stamp-costly-regulations-n2663542>



[Frank Lasee](#) | Sep 18, 2025

The opinions expressed by columnists are their own and do not necessarily represent the views of Townhall.com.

The NAS Climate Report: A Biased Rush to Rubber-Stamp Costly Regulations



The National Academies of Sciences, Engineering, and Medicine (NAS) claims its fast-tracked report, due September 2025, will objectively assess the EPA's 2025 proposal to repeal the 2009 Endangerment Finding (EF), which regulates CO2 as a pollutant.

However, the committee's composition and process suggest political motivation—not scientific rigor—as nearly every member of the committee is biased.

The EF ignores that humans exhale about 800 pounds of CO2 annually, while rising atmospheric CO2 is greening the planet, boosting crop yields by up to 40% at 840 ppm—double current levels, likely 180 years away. Greater food crop yields are a tremendous benefit.

The NAS panel, with 13 of 15 members tied to climate alarmism and funded by groups like the Ford Foundation with **scant climate credentials**, seems primed to affirm a catastrophic CO2 narrative. It's likely to dismiss evidence questioning the EF's necessity, such as Asia and Africa's rising emissions dwarfing U.S. reductions, or the economic benefits to repealing it, which will save Americans trillions in energy and food costs.

Electricity prices surged 7% from June 2024 to June 2025—twice inflation’s rate—driven by EF-based policies pushing costly shifts from coal and gas to intermittent wind and solar. The Center for American Progress reports 81 million electric customers will face \$67 billion in hikes through 2028, with utilities like Dominion Energy raising bills \$21/month for “green” mandates. These regulations, assuming CO2 drives dangerous warming, force premature coal plant closures, adding billions to consumer costs.

The committee, led by Shirley Tilghman, a molecular biologist **without climate expertise, promotes alarmist claims**. Marika Holland’s extreme Arctic ice loss scenarios ignore stable trends since 2005, while Kari Nadeau links CO2 to health crises, dismissing its role in increased food production. Arthur Lee’s carbon capture ties create conflicts, as his career depends on CO2’s villainization.

Steven Koonin



<https://www.climatedepot.com/2025/09/20/physicist-dr-steven-koonin-at-long-last-clarity-on-climate-our-report-is-the-first-from-washington-in-years-that-deviates-from-the-narrative-of-a-climate-headed-for-catastrophe/>

Physicist Dr. Steven Koonin on DOE climate report: 'At Long Last, Clarity on Climate' – 'Our report is the first from Washington in years that deviates from the narrative of a climate headed for catastrophe'

By Admin

September 20, 2025 • 7:39 am



<https://www.wsj.com/opinion/at-long-last-clarity-on-climate-7c49bfb6>

The Energy Department's recent report is drawing predictable criticism from politicized scientists, by Steven E. Koonin. Dr. Koonin is a senior fellow at Stanford's Hoover Institution and author of **"Unsettled: What Climate Science Tells Us, What It Doesn't, and Why It Matters."**

Excerpt:

A recent Energy Department report challenged the widespread belief that greenhouse-gas emissions pose a serious threat to the nation. It likely soothed Americans irked by forced energy transitions, but you would be wrong to assume it reassured many alarmed by hypothetical climate catastrophes.

There is a disconnect between public perceptions of climate change and climate science—and between past government reports and the science itself. Energy Secretary Chris Wright understands this. It's why he commissioned an independent assessment by a team of five senior scientists, including me, to provide clearer insights into what's known and not about the changing climate.

Collectively, our team brought to the task more than 200 years of research experience, almost all directly relevant to climate studies. The resulting peer-reviewed report is entirely our work, free from political influence—a departure from previous assessments. It draws from United Nations and U.S. climate reports, peer-reviewed research, and primary observations to focus on important aspects of climate science that have been misrepresented to nonexperts.

Among the report's key findings:

- Elevated carbon-dioxide levels enhance plant growth, contributing to global greening and increased agricultural productivity.
- Complex climate models provide limited guidance on the climate's response to rising carbon-dioxide levels. Overly sensitive models, often using extreme scenarios, have exaggerated future warming projections and consequences.
- Data aggregated over the continental U.S. show no significant long-term trends in most extreme weather events. Claims of more frequent or intense hurricanes, tornadoes, floods and dryness in America aren't supported by historical records.
- While global sea levels have risen about 8 inches since 1900, aggregate U.S. tide-gauge data don't show the long-term acceleration expected from a warming globe.
- Natural climate variability, data limitations and model deficiencies complicate efforts to attribute specific climate changes or extreme events to human CO2 emissions.
- The use of the words "existential," "crisis" and "emergency" to describe the projected effects of human-caused warming on the U.S. economy finds scant support in the data.

Among the report's key findings...Cont'd:

- Overly aggressive policies aimed at reducing emissions could do more harm than good by hiking the cost of energy and degrading its reliability. Even the most ambitious reductions in U.S. emissions would have little direct effect on global emissions and an even smaller effect on climate trends.
- Our report is the first from Washington in years that deviates from the narrative of a climate headed for catastrophe. That these findings surprised many speaks to a governmental failure to communicate climate science accurately to the public.
- Our work has attracted strong criticism, despite its grounding in established science. Almost 60,000 comments were submitted to the Federal Register during the month after its publication, and the Environmental Defense Fund and Union of Concerned Scientists filed a lawsuit to prevent the Energy Department or Environmental Protection Agency from using the report in decision-making. Most of these challenges have no scientific backing. Though scientists supporting the so-called consensus on climate change have organized several serious critiques, these at most add detail and nuance to our findings, without negating the report's central points. They still merit response, which will form the next round in an overdue public debate on the effects of greenhouse-gas emissions.

David Wojick

National Academies Go Preposterous on CO2

🕒 6 days ago 👤 Guest Blogger 💬 134 Comments

From CFACT

By David Wojick

You would think the National Academy of Sciences understands science, but you would be wrong. Their President just approved a report the conclusion of which is scientifically impossible!

The report is jointly from the National Academies of Sciences, Engineering and Medicine or NASEM. Titled “Effects of Human-Caused Greenhouse Gas Emissions on U.S. Climate, Health, and Welfare” this squirrely tome is a formal comment on EPA’s proposed repeal of the 2009 Endangerment Finding. It is also a reply to the Energy Department’s recent report supporting this repeal. In both reports the focus is the adverse effects, if any, of our CO2 emissions.

The NASEM report’s preposterous conclusion is most clearly stated in the last paragraph of its lengthy Summary, to wit: “In summary, the committee concludes that the evidence for current and future harm to human health and welfare created by human-caused GHGs is BEYOND SCIENTIFIC DISPUTE.” (Emphasis added)

CFACT hits National Academies with CO2 debate

By David Wojick | September 8th, 2025 | 0 Comments

I recently had the honor of submitting CFACT's comments on the National Academy of Sciences' so-called "fast-track study" on whether the CO2 increase is dangerous. Our point is simply that there is a lot of debate.

National Academy of Sciences (NAS) has a dilemma here. Their study is a rapid response to the recent DOE study finding that the CO2 increase is not dangerous, which supports EPA's proposal to repeal the old CO2 endangerment finding.

NAS is a leading alarmist, so of course they disagree. But it is a basic tenant of alarmism that there is no serious debate. Explicitly responding to the DOE report makes it clear that there is a deep debate. But if they do not respond, they let the DOE report stand. It will be fun to see how they handle this.

Note that the comments are addressed to the NASEM, which is the National Academies of Sciences, Engineering, and Medicine, because NAS no longer acts alone. Given this is a science issue, the play is in NAS's court. Also, DOE is the world's largest funder of physics research, so this is truly a debate among titans. Stay tuned to CFACT as this game plays.

The fast-track study description makes reference to disagreements, so it needs to thoroughly address what is likely the greatest of the many disagreements that characterize the scientific debate. The issue is what is known simply as **CO2 climate sensitivity**.

I am sure the study committee is familiar with this concept. **Roughly speaking, it is the amount of warming projected to occur if the atmospheric concentration of CO2 is doubled**, all other things being equal. Note that this is not a prediction as numerous other things are likely to occur in reality. For example: changes in cloud cover, in ocean circulation, or in long term chaotic parameter oscillations.

Even so, CO2 sensitivity is a central measure when it comes to the question of whether a CO2 increase might be harmful. **There are several levels of deep disagreement over the magnitude of CO2 sensitivity**. The first level is within the collection of climate models. These present a wide range of values, from just under two degrees C to well over five degrees. This great range is sufficient to show that no model can be taken to be likely to be correct. As a corollary, it follows that no extreme event CO2 attribution study based on one model can be considered correct.

The degree of disagreement increases when one considers the observation-based estimates of CO2 sensitivity. **These mostly range from as little as 1.0 degrees C to 2.5 degrees, with none supporting the higher model values**. This is especially important given that the hotter models are the primary evidence that increasing CO2 might be harmful. Disagreement is a powerful form of uncertainty.

The lack of evidence due to uncertainty gets even greater when one adds in the various arguments **that the CO2 increase has not caused a significant fraction of the observed warming** or that the CO2 increase is not driven solely by our emissions. These arguments also need to be addressed.

Given this great range of disagreement over CO2 sensitivity, **it is reasonable to conclude that the hotter models provide little evidence that our CO2 emissions are likely to be harmful. The fast-track study should be careful not to make such an unsupportable claim.**

2. Numerous other major disagreements

More broadly, it is the case that pretty much every significant piece of evidence in the climate debate is subject to serious disagreement. The debate is quite thorough in this regard. The fast-track study should not report pieces of evidence without characterizing these disagreements.

3. Sources for finding major disagreements

As to sources, it is important to note that disagreements seldom appear in the peer reviewed literature. Journals present findings, not debates. Traditionally, debates occurred in Q&A sessions after papers were presented and in private correspondence, including group email exchanges. Happily, they can now be found in public blogs, and these should be considered as a source for disagreements in this study.

...

A good starting point is Dr. Judith Curry's blog, **Climate, Etc.**, found at <https://judithcurry.com/>

This blog includes a number of lengthy and reasonably respectful scientific debates over major issues relevant to the fast-track study. For example, a recent case starts with an article by an observational CO2 sensitivity researcher — “Addressing misconceptions about Climate Sensitivity research: a Response to recent Criticisms” — which is clearly about disagreements.

4. The debate is central to this study

In summary, if the fast-track study is to properly “review the latest scientific evidence on whether greenhouse gas emissions are reasonably anticipated to endanger public health and welfare in the U.S.” it must carefully consider the debate that surrounds such evidence. In complex cases like this, debate is a central feature of the scientific method.

Respectfully submitted,

David Wojick, Ph.D.

DAILY CALLER



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ENERGY

https://dailycaller.com/2025/09/17/insiders-say-national-academy-of-sciences-climate-report-clapping-back-at-trump-epa-has-more-holes-than-swiss-cheese/?utm_medium=organic&utm_campaign=related&utm_source=website

Insiders Say National Academy Of Sciences' Climate Report Clapping Back At Trump EPA Has More Holes Than Swiss Cheese

The National Academy of Sciences, Engineering and Medicine (NASEM) released its report on how greenhouse gas emissions (GHG) endanger public health on Wednesday, which several energy sector experts told the Daily Caller News Foundation was thrown together with the aim of undermining the Trump administration.

The Environmental Protection Agency (EPA) **announced** it is moving to roll back the 2009 Endangerment Finding, which determined that GHGs including carbon dioxide can be regulated as they pose a danger to human health and the environment. In response, NASEM put together a **review** which **argues** that GHG emissions are building up in the atmosphere, which contributes to climate change, though energy policy experts have **previously explained** to the DCNF that the Endangerment Finding was not founded on sound evidence and that it has since been used to impose crippling regulations and limit consumer choice.

Notably, the House Committee on Oversight and Government Reform Chairman James Comer is **investigating** NASEM for this review for potential “partisan aims” and requested that NASEM President Marcia McNutt turn over all communications related to the proposed Endangerment Finding rule change, along with details on the organization’s funding sources, to the committee.

“The Endangerment Finding review by the National Academies produced a pre-determined outcome that is not a surprise to anyone who has paid the least bit of attention,” Michael Chamberlain, director of watchdog group Protect the Public’s Trust. “The alarmism of the green movement was fed by a massive influx of the other type of green to well-connected NGOs, individuals, and organizations such as the National Academies. In addition to producing apocalypticism that has created eco-anxiety among a generation of youth, this financial boon is at the core of the hydra-headed intersectional progressive movement that has fed much of the unrest and extremism we have unfortunately witnessed far too much of.”

NASEM and Tilghman did not respond to the DCNF’s request for comment.

Steve Milloy

STEVE MILLOY

CONTRIBUTOR

September 21, 2025

4:18 PM ET

<https://dailycaller.com/2025/09/21/opinion-rigged-report-by-national-academies-aims-to-thwart-trump-energy-agenda-steve-milloy/>

The National Academy of Sciences just released its so-called **review** of the Trump EPA's proposal to rescind the endangerment finding for greenhouse gases. It is every bit the rigged and predetermined outcome **predicted**.

Not only does the report conclude that the EPA's 2009 endangerment finding was correct, it claims that the evidence now for greenhouse gas emissions causing harm is greater than it was in 2009. But what was the process by which the NAS committee reached this conclusion?

<https://dailycaller.com/2025/09/21/opinion-rigged-report-by-national-academies-aims-to-thwart-trump-energy-agenda-steve-milloy/>

The Trump EPA formally proposed to rescind the endangerment finding on Aug. 1. The NAS announced that it would launch its own review six days later on Aug. 7. This was a surprise since the NAS generally only offers scientific advice to the federal government upon request of the federal government. But don't take my word for it. Here's what NAS president Marcia McNutt had to **say** about that in April 2020 when people urged the NAS to tackle the COVID crisis: "Y'all have it backwards. The charter states that the government calls on the Academies to conduct studies, not the other way around."

In its Aug. 7 announcement, the NAS set a deadline of Aug. 27 for the public to submit information to the committee and, perplexingly, a Sept. 11 deadline for comments on the composition of the proposed committee.

<https://dailycaller.com/2025/09/21/opinion-rigged-report-by-national-academies-aims-to-thwart-trump-energy-agenda-steve-milloy/>

There have been tens of thousands of climate studies published since 2009. But the 137-page report cites only 573 of them. On the one hand, the 573 studies represent just a sliver of the climate science literature. On the other hand, 573 studies is an immense number of studies for a committee of 15 – none of whom are atmospheric scientists – to review in only 10 working days.

The overall nature and quality of the report can be assessed from the first few sentences in the report's preface: "As the committee undertook this project, it was hard not to think about recent climate-related disasters: the heavy rainfall of Hurricane Helene that destroyed homes and roads in the mountains of North Carolina, the fast-moving wildfires that displaced thousands in Los Angeles and affected air quality for miles around, and the rapid flooding of the Guadalupe River in central Texas that led to at least 135 fatalities."

There is not enough room in this column for a comprehensive critique of the NAS report, but here is just one other egregious example. **Citing an EPA graph**, the report asserts that heat waves have increased since the 1960s. But the report studiously avoids another more complete EPA graph showing that heatwaves have dramatically decreased since the 1930s.

From process to substance, the NAS report is a travesty. Its purpose is to thwart the Trump energy agenda. While this particular report only applies to the fossil fuel part of the Trump energy agenda, you can bet that the NAS will be equally disingenuous when it comes to the Trump nuclear power agenda. It has a **history** of this.

Two-thirds of the NAS funding comes from the federal government. President Trump should terminate that funding and make the NAS decide between sound science and junk science.

Steve Milloy is a biostatistician and lawyer, publishes JunkScience.com and is on X
@JunkScience.

From the previous post by Steve Milloy, a repeat of this gem:

The overall nature and quality of the report can be assessed from the first few sentences in the report's preface: "As the committee undertook this project, it was hard not to think about recent climate-related disasters: the heavy rainfall of Hurricane Helene that destroyed homes and roads in the mountains of North Carolina, the fast-moving wildfires that displaced thousands in Los Angeles and affected air quality for miles around, and the rapid flooding of the Guadalupe River in central Texas that led to at least 135 fatalities."

At CASF, we have posted on these very events!

<https://casf.me/2024s-hurricanes-helene-milton/>

... and claims their power was juiced by "Human-Caused Climate Change"

<https://casf.me/analysis-of-the-january-2025-los-angeles-wild-fires/>

<https://casf.me/the-central-texas-floods-of-4-jul-2025-tragic-loss-of-human-lives/>

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<https://casf.me/2024s-hurricanes-helene-milton/>

... and claims their power was juiced by "Human-Caused Climate Change"

2024's Hurricanes Helene & Milton and claims their power was juiced by "Human-Caused Climate Change"

THE CITY OF ASHEVILLE
100 years after the Flood of 1916, the City of Asheville is ready for the next one
Posted on June 27, 2016 by Web Editors - CAFE



Bob Endlich

bendlich@msn.com

Cruces Atmospheric Science Forum

19 Oct 2024 0315

100 years after the Flood of 1916, the City of Asheville is ready for the next one

Posted on June 27, 2016 by Web Editors - CAPE

First, this
unfortunate post...



<https://www.citizen-times.com/story/news/local/2024/10/01/asheville-nc-flooding-see-helene-devastation-in-videos-photos/75471456007/>



A local resident helps free a car that became stranded in a stretch of flooded road as Tropical Storm Helene strikes, on the outskirts of Boone, North Carolina, U.S. September 27, 2024.

Note the large rocks on the roadway.

<https://yaleclimateconnections.org/2024/10/climate-change-made-hurricane-helene-and-other-2024-disasters-more-damaging-scientists-find/>



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EYE ON THE STORM

Climate change made Hurricane Helene and other 2024 disasters more damaging, scientists find

Rising global temperatures are amplifying deadly extreme weather events.

Climate change increased Hurricane Helene's and Milton's potential destructiveness

Hurricane Milton, which formed in the Gulf of Mexico in early October, offers an example of how climate change amplifies extreme weather. As a result of high water temperatures, the storm rapidly intensified from a tropical storm to reach Category 5 status. The scientists at Climate Central estimated that those unusually warm sea surface temperatures were made up to 400 to 800 times more likely by climate change.

Whoa!

Let's FIRST widen our horizon to include:

Higher water temperatures.

Let's look at the physics of the wavelengths that heat ocean (and other) water

Closely related, how changes in global cloud cover are part of recent warming

Let's see who is making these claims, the “scientists say” group or groups...

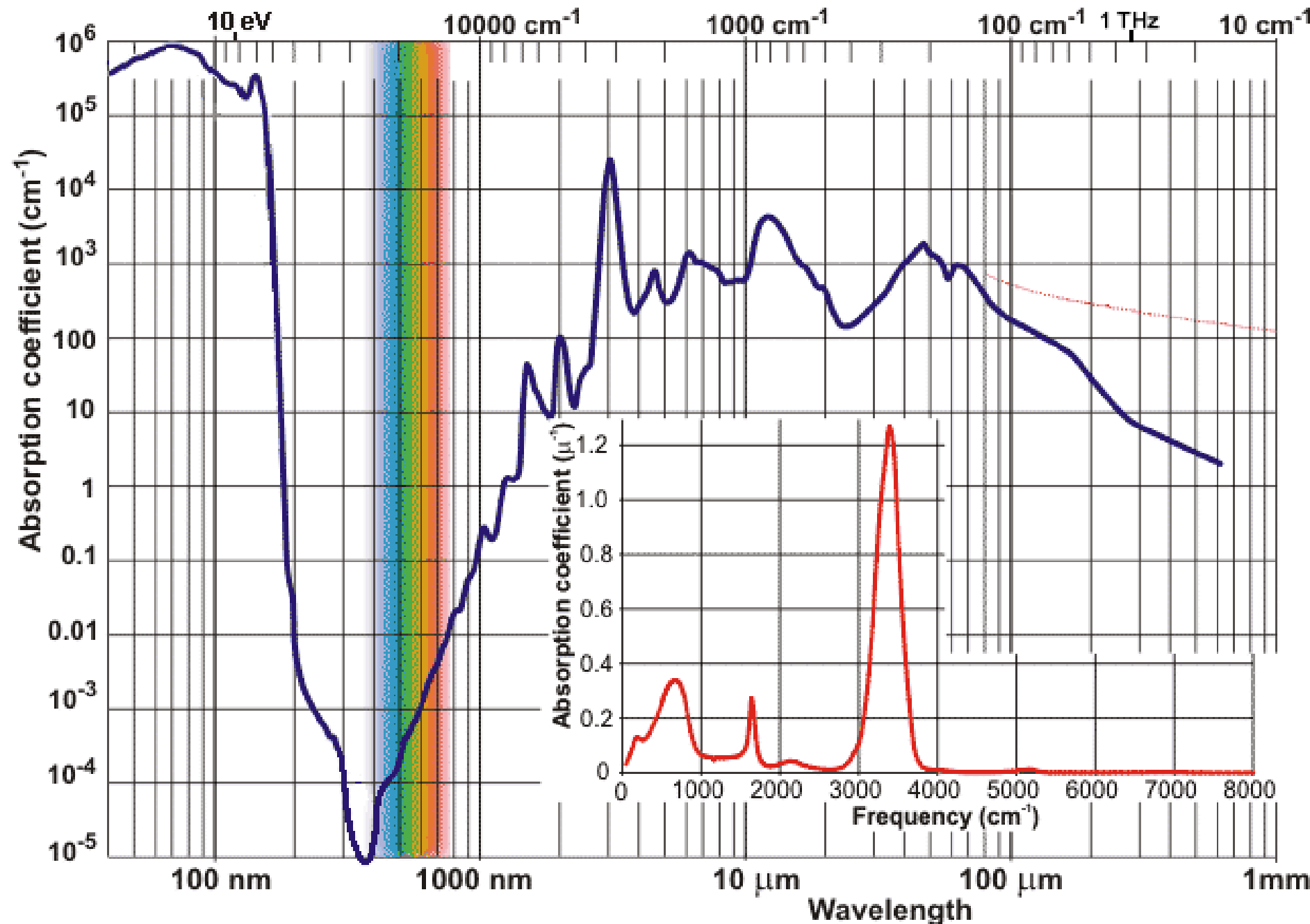
Seems there is a new industry afoot, the “Weather Attribution” industry, aided by the Main-Stream Media.

Let's check weather history and physical science before “Blaming America (and the developed world) First!” (adapted from Jeanne Kirkpatrick)

Most damage seems to be from high rainfall rates and flooding, so let's look at historical record rainfall from NOAA....

The physics of solar wavelengths that heat ocean (and other) waters

The UV, Visible and Infrared wavelengths (abscissa) and how they are absorbed by water (ordinate).



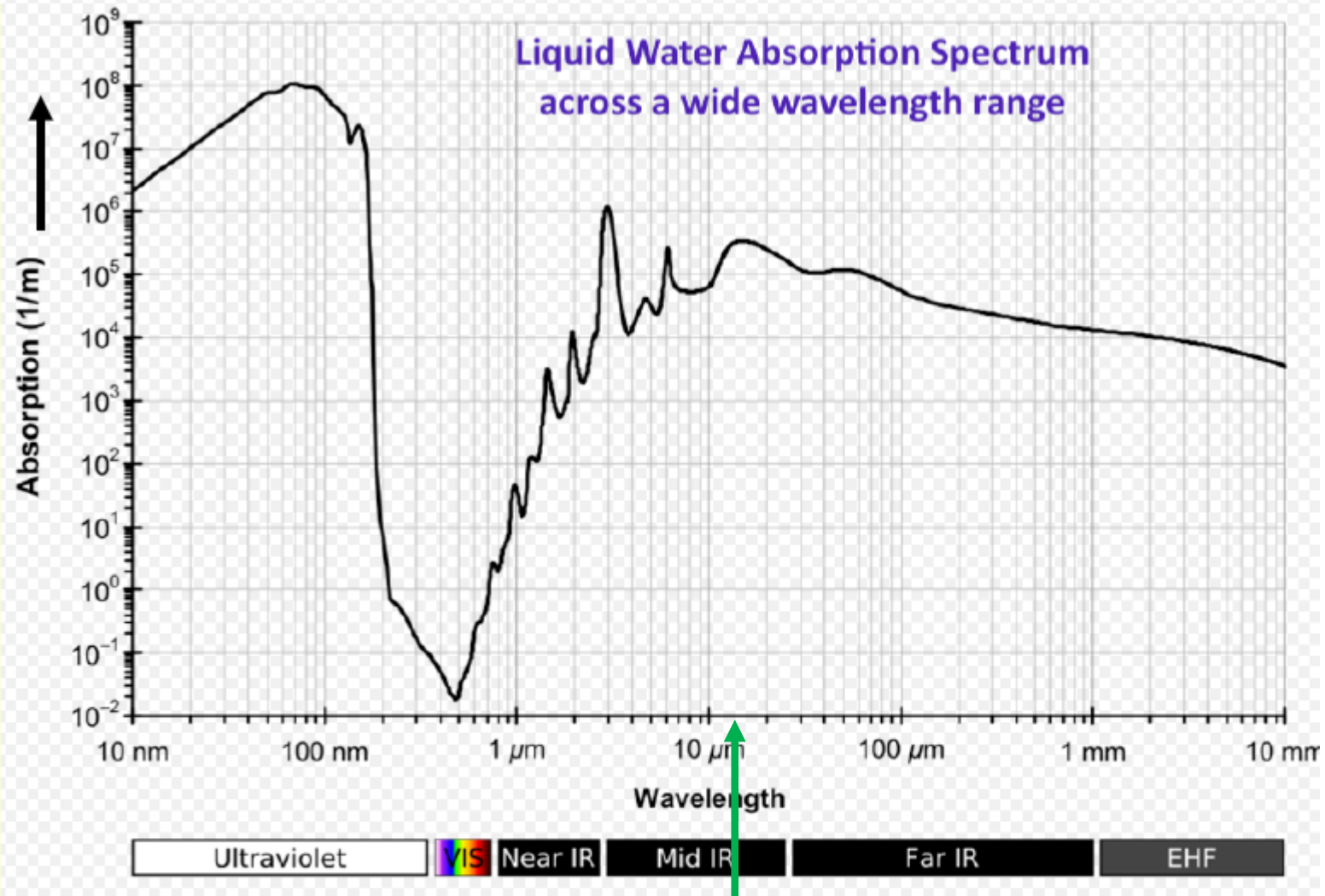
Explanation: At visible wavelengths, the colored portion of the spectrum shown with the red arrow in the diagram, the sun's radiation penetrates well into the water, because the absorption coefficient is low in the visible portion of the spectrum.

Britannica explains this as follows:
“Water is transparent to the wavelengths of electromagnetic radiation that fall within the visible spectrum and is opaque to wavelengths above and below this band.”

Water is heated by the sun's rays.

Reduced cloudiness allows more sunlight to heat the water over time.

More atmospheric carbon dioxide, emitting in the infrared, IR, can not and does not heat river, lake, or ocean waters.



The green arrow shows the 15-micron peak of CO₂ absorption and emission. Such radiation does not enter and warm the water.

https://water.lsbu.ac.uk/water/water_vibrational_spectrum.html

Additional thought on the subject:

Sunlight (NOT, e.g., infrared energy in the CO₂ band) Heats Seawater

Alarmists claim increasing <CO₂> causes increasing Sea Surface Temperatures.

This is incorrect.

It is **only visible sunlight** which **penetrates sea water** (and other water surfaces) and heats the water.

Infrared radiation does not penetrate sea water, or any water.

A simple validation of this is viewing into a pool. Visible Solar Radiation penetrates the water and illuminates the bottom of the pool.

A percentage of that light reflects from the bottom and comes back through the water and into the air.

The fact that we see the structures on the sides and bottom of the pool is evidence that visible sunlight penetrates water...(and heats it.)

We can see this in
daily life...
Here we can see
into the pool water



The reason we see the big bass in the water: visible light enters the water, illuminates the bass, reflected light comes out of the water that light is captured by the camera and our eyes... we see the bass in the water!

Big Bass eats Bluegill: https://www.youtube.com/watch?v=7_3UUTu

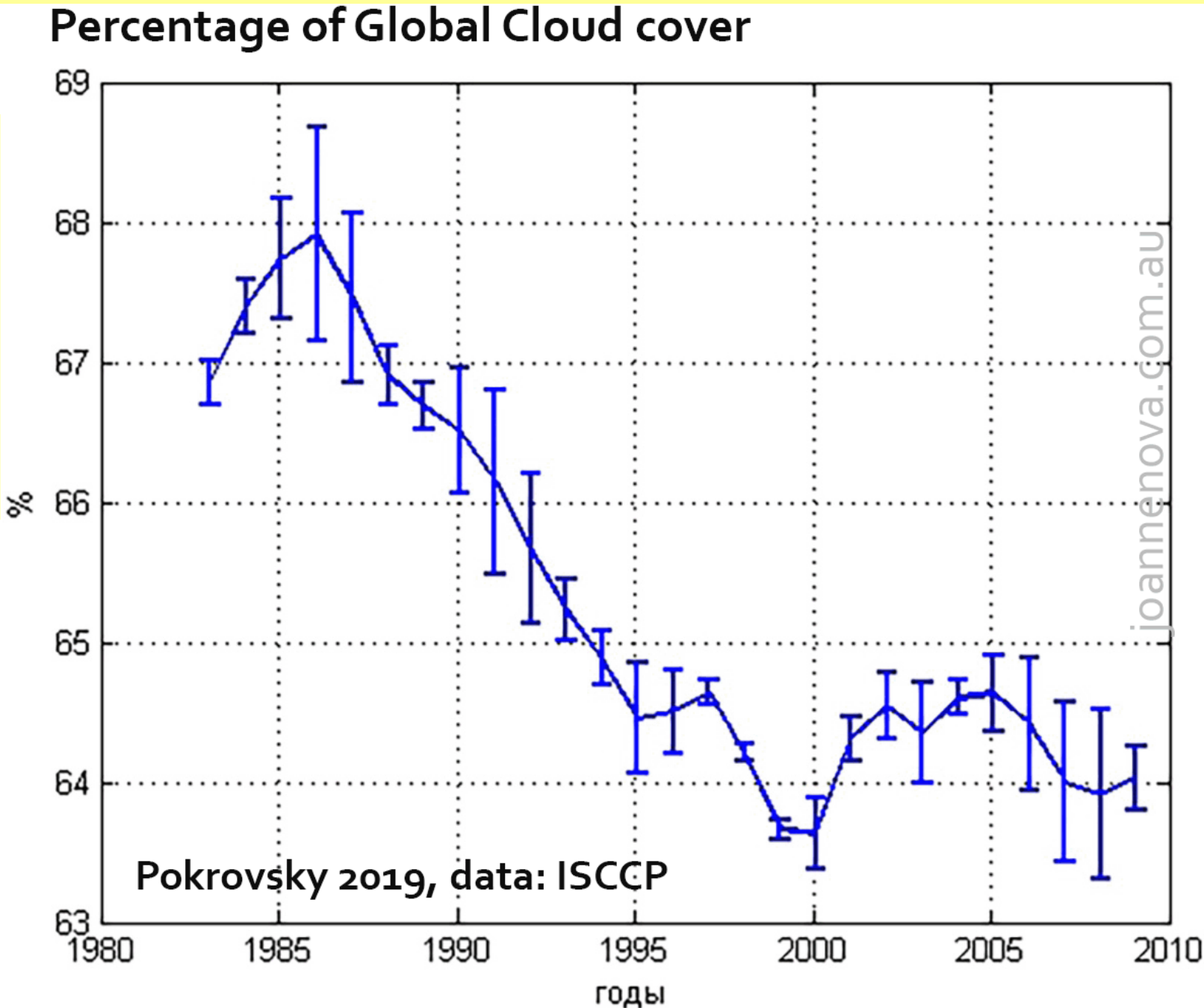


Cloud Cover Variations, and how they fit in...

International Satellite Cloud
Climatology Project: ISCCP
<https://isccp.giss.nasa.gov>

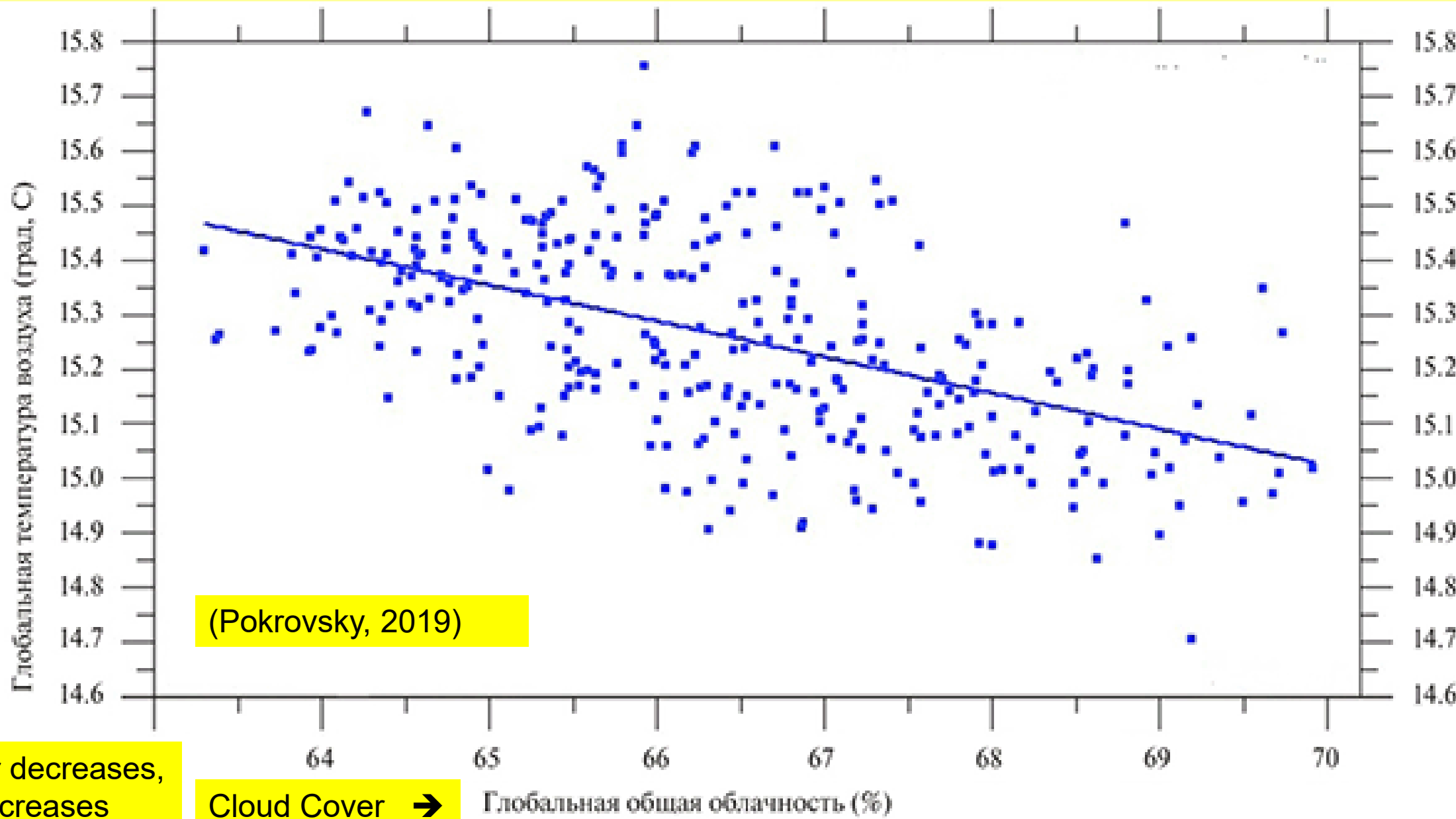
“The focus of the International
Satellite Cloud Climatology Project
is to collect weather satellite
radiance measurements and to
analyze them...”

Message:
Global Cloud Cover decreased
from 1986-2000



Note Cyrillic
Alphabet
used in the
original

Temp C



As Cloud Cover decreases,
Temperature increases

Results of regression analysis of the series of global clouds (ISCCP) and surface air temperature (CRUTEM3).

Let's see who is making these claims, the “scientists say” group(s)...

Seems there is a new industry afoot, the “Weather Attribution” Industry

The “Weather Attribution” Industry, part of Climate Alarmists

Weather attribution industries I found in preparing; this list is not complete

Yale Climate
Connections



World Weather
Attribution



Climate Crisis 247

Climate Crisis 247

Climate Central

CLIMATE  CENTRAL

Reuters, NPR, USA
Today



When weather attribution is used while the weather story is in the news, it is called **Tactical Science**.

<https://rogerpielkejr.substack.com/p/weather-attribution-alchemy>

Weather Attribution Alchemy

A new THB series takes a close look at extreme weather event attribution, Part 1



ROGER PIELKE JR.

OCT 07, 2024

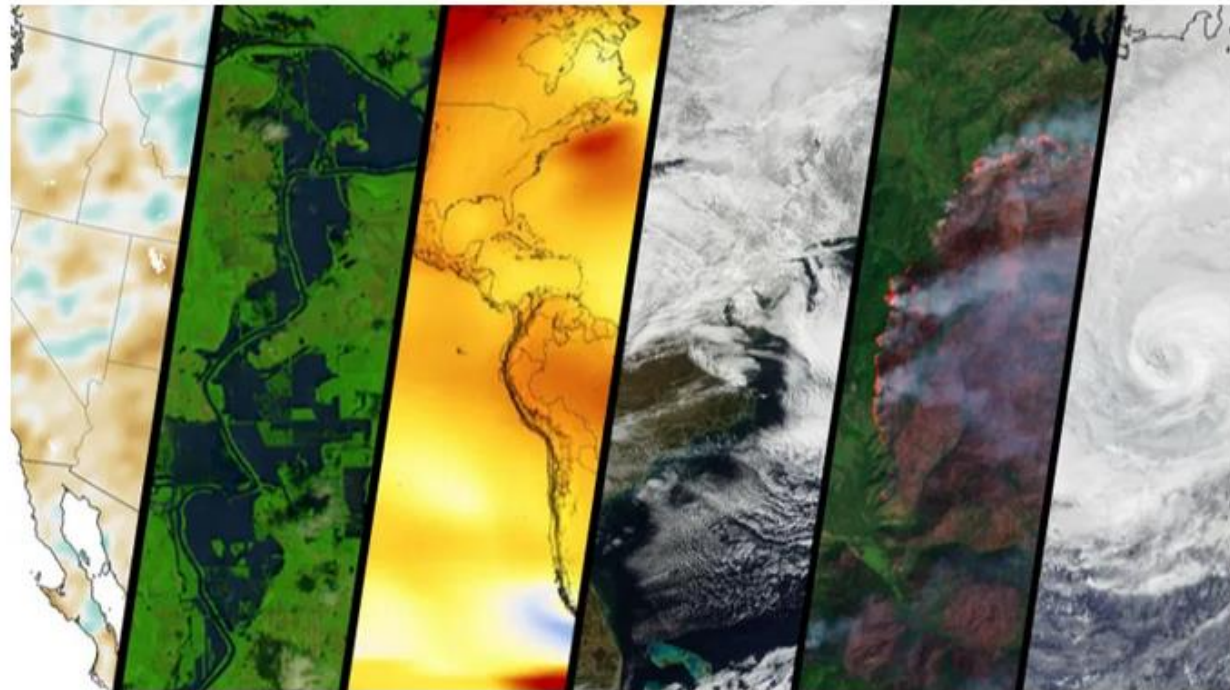


126



47

Share



About the thing that just happened (Source: [NASA](#))

The Honest Broker

For instance, researchers behind the World Weather Attribution (WWA) initiative **explain** that one of their key motives in conducting such studies is, “increasing the ‘immediacy’ of climate change, thereby increasing support for mitigation.” WWA’s chief scientist, **Friederike Otto**, **explains**, “Unlike every other branch of climate science or science in general, event attribution was actually originally suggested with the courts in mind.” Another oft-quoted scientist who performs rapid attribution analyses, **Michael Wehner**, summarized their importance (emphasis in original) — “The most important message from this (and previous) analyses is that **“Dangerous climate change is here now!”**

This post <https://rogerpielkejr.substack.com/p/weather-attribution-alchemy> is thought-provoking and way too long to be analyzed today.

We are supposed to be shocked, SHOCKED! by this report!



[Home](#) > [Storms](#) > Yet another hurricane wetter, windier and more destructive because of climate change

Yet another hurricane wetter, windier and more destructive because of climate change

11 October, 2024

Extreme rainfall, Storms
North America

The event

Hurricane Milton began as a tropical depression in the Gulf of Mexico on Saturday 5th October. It very rapidly intensified to tropical storm status, before undergoing explosive intensification to a high category 5 between Sunday 6th and Monday 7th, as it moved southeast towards the Yucatan Peninsula ([NOAA, 2024](#)), where the central pressure fell to below 900 mbar ([NHC, 2024](#)). This was driven and sustained by the very high sea surface temperatures in the Gulf, which previous analysis has shown to have been made 100,000 times more likely by climate change ([Climate Calculator](#)).

Guide for journalists

Reporting extreme weather and climate change: a guide for journalists – in a number of languages)

You may also be interested in...

- Climate change key driver of catastrophic impacts of Hurricane Helene that devastated both coastal and inland communities
- Climate change and high exposure increased costs and disruption to lives and...

van Oldenborgh, G.J et al. (2017) *Attribution of extreme rainfall from Hurricane Harvey, August 2017*. *Environmental Research Letters*, 12: 124009. doi: 10.1088/1748-9326/aa9ef2

Philip, S.Y (2022) *Rapid attribution analysis of the extraordinary heat wave on the Pacific coast of the US and Canada in June 2021*. *Earth System Dynamics*. doi: <https://doi.org/10.5194/esd-13-1689-2022>

I have posted previously about these events.

The Honest Broker

Weaponizing Peer Review

Tactical science in service of political ends



ROGER PIELKE JR.

OCT 03, 2024



156



55



If it is peer reviewed then it is good science, right?

Today, I focus on the use and abuse of the peer reviewed literature to produce *tactical science* which I define as:

Publications — often targeted for the peer reviewed literature — designed and constructed to serve extra-scientific ends, typically efforts to shape public opinion, influence politics, or serve legal action.

I first became aware of tactical science in 2008, when Princeton professor **Stephen Pacala** explained candidly that his famous 2004 “**stabilization wedges**” paper (with Robert Socolow) was actually written to serve political ends and to marginalize other researchers:

“The purpose of the stabilization wedges paper was narrow and simple – we wanted to stop the Bush administration from what we saw as a strategy to stall action on global warming by claiming that we lacked the technology to tackle it. The Secretary of Energy at the time used to give a speech saying that we needed a discovery as fundamental as the discovery of electricity by Faraday in the 19th century.

We also wanted to stop the group of scientists that were writing what I thought were grant proposals masquerading as energy assessments. There was **one famous paper published in Science** that went down the list [of available technologies] fighting them one by one but never asked “what if we put them all together?” It was an analysis whose purpose was to show we lacked the technology, with a call at the end for blue sky research.



Since then, I've seen tactical science become increasingly prevalent in the climate science literature. Here are just a few examples of tactical science that is also bad science:

- **Howarth (2024, published just today)**. Funded by the **Park Foundation — opponents of natural gas** — and released as a pre-print apparently to support the Biden Administration's LNG pause. **Jonah Messinger explains** why this paper is riddled with errors.
- **Serofim et al (2024)**. Funded by EPA — and written by EPA, one of its government contractors, and others — the paper defends EPA's continued use of RCP8.5, which is **fundamental to the Biden Administration's "social cost of carbon."** Jessica Weinkle has a **must-read eye-opening post on this paper**. RCP8.5 is **indefensible**.
- **Schwalm et al. 2020**. From the Woodwell Climate Research Center, which is funded by McKinsey — a heavy user of RCP8.5, the paper also justifies the continued prioritization of RCP8.5. The **paper relies on fanciful assumptions** of massive increases in land use carbon dioxide emissions completely at odds with observations and the IPCC.

None of the three papers above disclosed the interests of funders in the published results of the analyses. If you click through the links above you will find detailed critiques of each paper. ¹ At the same time, each paper is heavily cited in other research and in political settings because each is tactically useful.

An allied group, the Main Stream Media.

Here's an example from CNN.

<https://rumble.com/v5ebn91-okeefe-media-group-exposes-google-committing-election-interference.html>



Journalist, Project Veritas

**Do you think it's going to be just like
a lot of like fear for the climate?**



Charlie Chester, CNN Technical Director

Yeah. Fear sells.

Rainfall records. Resultant Flooding.

US Rainfall Records by amount, date, then plotted on a map

Selected Flooding rains in the Appalachian Mountains

- Flood of 1916, Asheville, North Carolina
- 1955 floods, Hurricanes Connie and Dianne, in and around Stroudsburg, PA.
- 1969: Remnants of Camille destroyed the Southern Railroad's trestle, crossing the Tye River in Nelson County, VA .
(feature story in Southern's TIES Magazine, extracts following)
- 1996: Hurricane Fran

Extreme Weather: A Guide & Record Book

By Christopher C. Burt

U.S. Record Point Rainfalls

<i>Time</i>	<i>Rainfall</i>	<i>Location</i>	<i>Date</i>
1 minute	1.23"	Unionville, MD	7/4/1956
5 minutes	2.03"	Alamogordo Creek, NM	6/5/1960
12 minutes	2.30"	Embarrass, WI	5/28/1881
15 minutes	3.95"	Galveston, TX	6/4/1871
30 minutes	7.00"	Cambridge, OH	7/16/1914
40 minutes	9.25"	Guinea, VA	8/24/1906
42 minutes	12.00"	Holt, MO	6/22/1947*
1 hour	13.80"	Central WV	5/4-5/1943
1 hour 30 minutes	14.60"	Central WV	5/4-5/1943
2 hours	15.00"	Woodward Ranch, (D'Hanis) TX	5/31/1935
2 hours 30 minutes	19.00"	Rockport, WV	7/18/1889
2 hours 45 minutes	22.00"	Woodward Ranch, (D'Hanis) TX	5/31/1935*
3 hours	28.50" est.	Smethport, PA	7/18/42*
4 hours 30 minutes	30.70"	Smethport, PA	7/18/42*
12 hours	34.30"	Smethport, PA	7/17-18/1942
18 hours	36.40"	Thrall, TX	9/9/1921
24 hours	43.00"	Alvin, TX	7/25-26/1979
4 days	62.00"	Kukaiau, Hamakua, HI	2/27-3/2/1902
8 days	82.00"	Kukaiau, Hamakua, HI	2/27-3/6/1902
1 month	148.83"	Mt. Waialeale, Kauai, HI	3/1982
1 month (mainland)	71.54"	Helen Mine, CA	1/1909
1 year	704.83"	Kukui, Kauai, HI	1982
1 year	332.29"	MacLeeod Harbor, AK	1976
1 year (mainland)	204.12"	Laurel Mountain, OR	1996
*constitutes a world record			

If we look at US Rainfall Records for up to 24 hours, the most recent is 24 Hours, 43in, Alvin, TX, between Houston and Galveston, 25 July 1979.
46 Years ago!

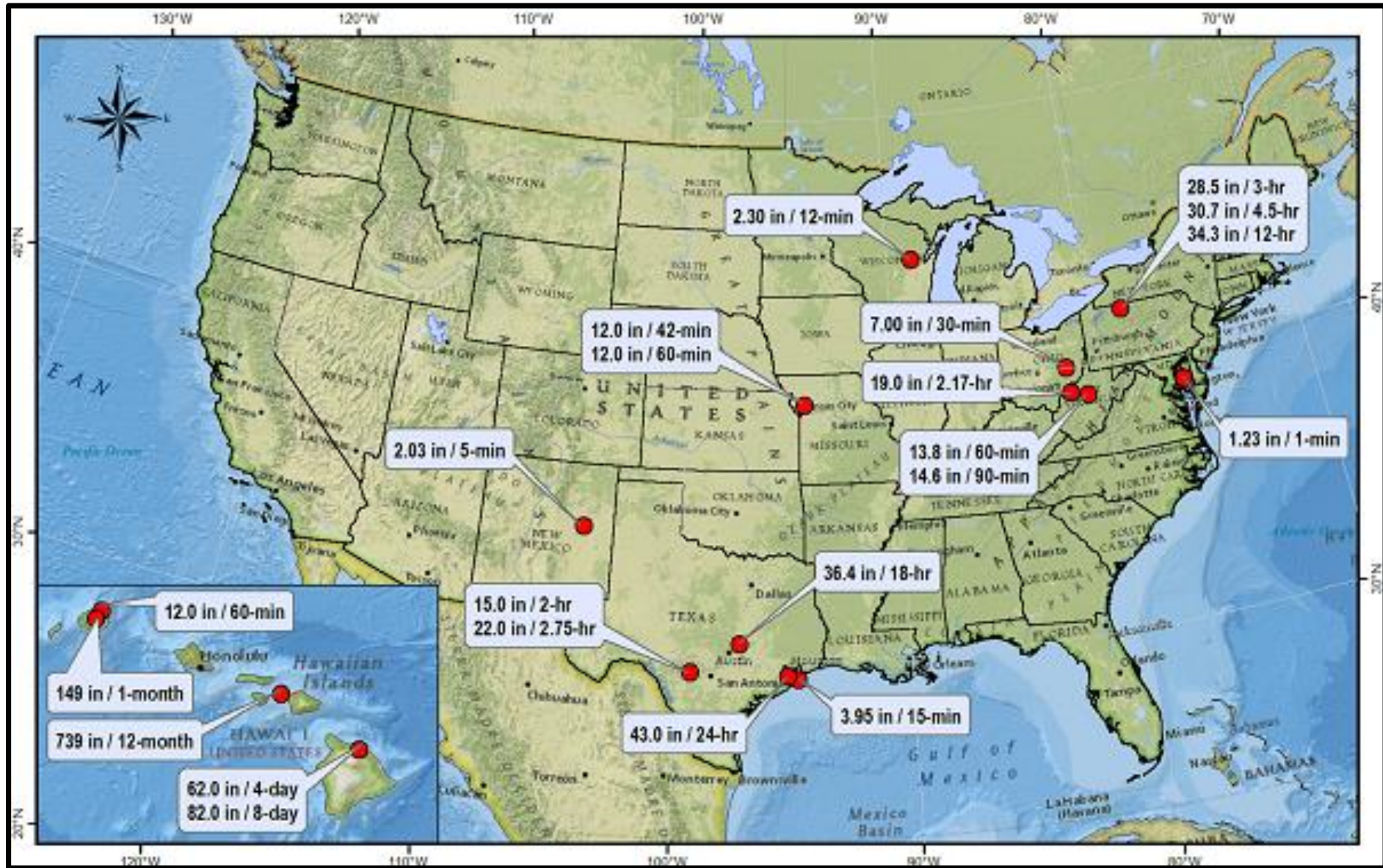
There’s no indication that modern warming or recent increases of <CO2> cause record rainfall.

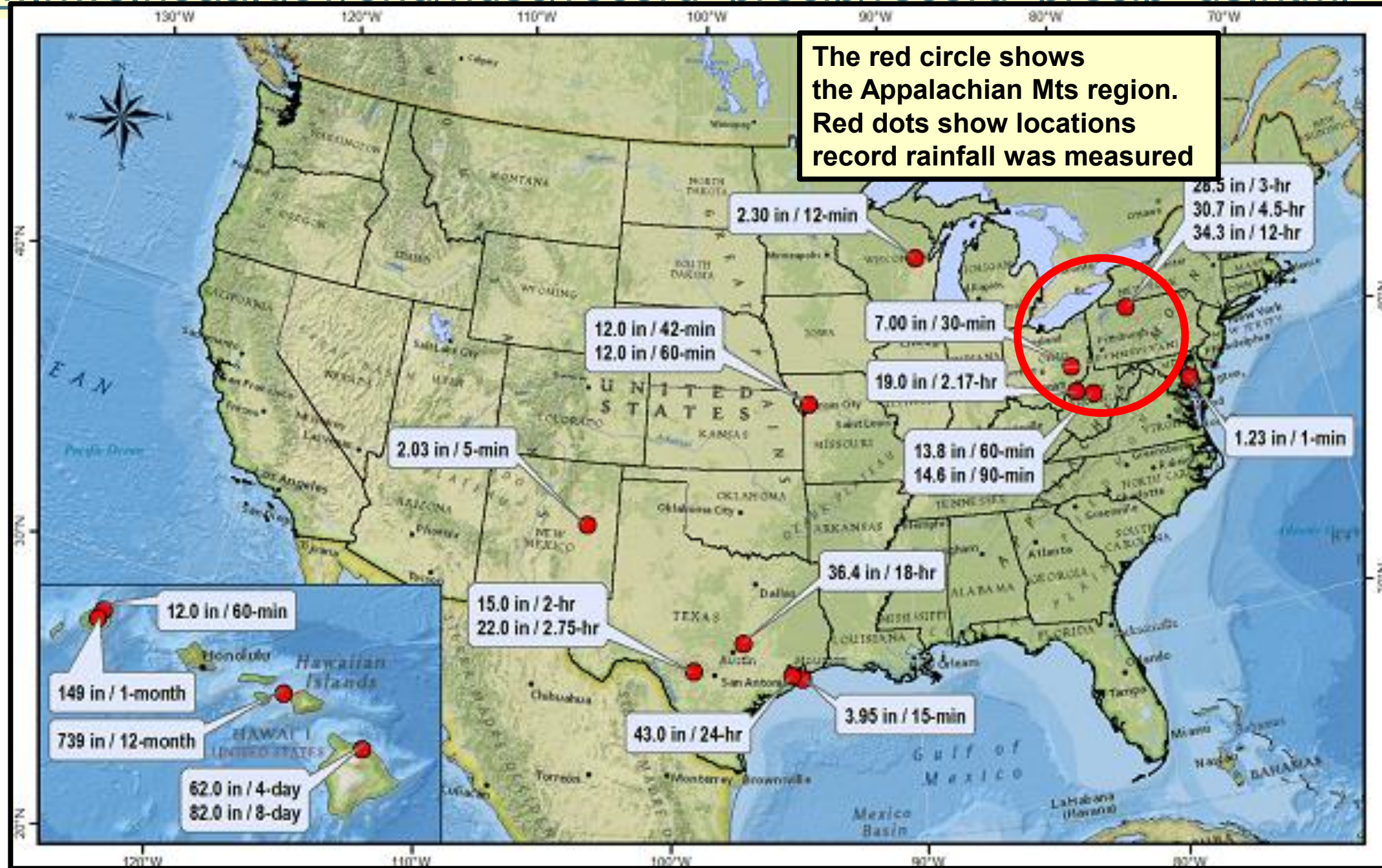
Notice the cluster of record rainfall occurrences in Pennsylvania, SE Ohio, (near WV mts) and in West Virginia.

There is a propensity of flooding rain occurrences in and around the Appalachian Mountains, in the warm season.

NOTICE! Flooding rain records are set in and around the Appalachian Mountains!

U.S. Record Point Rainfalls			
<i>Time</i>	<i>Rainfall</i>	<i>Location</i>	<i>Date</i>
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1 year (mainland)	204.12"	Laurel Mountain, OR	1996
*constitutes a world record			





It is not new news that when hurricanes or their remnants get into, especially the Appalachian Mountains, that severe flooding often occurs.

July 1916 flood in Asheville, NC.

.



<https://wattsupwiththat.com/2024/10/08/meet-the-108-year-old-1916-major-hurricane-that-brought-8-feet-of-flood-water-to-asheville-nc-covered-all-of-biltmore/>

Meet the 108-Year-Old 1916 Major Hurricane that Brought 8 Feet of Flood Water to Asheville, NC & Covered All of Biltmore



Hurricanes Connie and Diane, August 1955, in/near
Stroudsburg, PA.

As a youngster growing up in New Jersey, Hurricanes were important enough to warrant my interest.

Big Locust trees in the back of our house would sway dramatically in the high winds!

I distinctly remember the Summer of 1955:

Summer Drought, brown lawns, low water levels in the Swimming River Reservoir, our fresh water supply, adults fretting about the dry conditions.

Then, Hurricane Connie: Plentiful rain, green lawns, lots of water in Swimming River Reservoir.

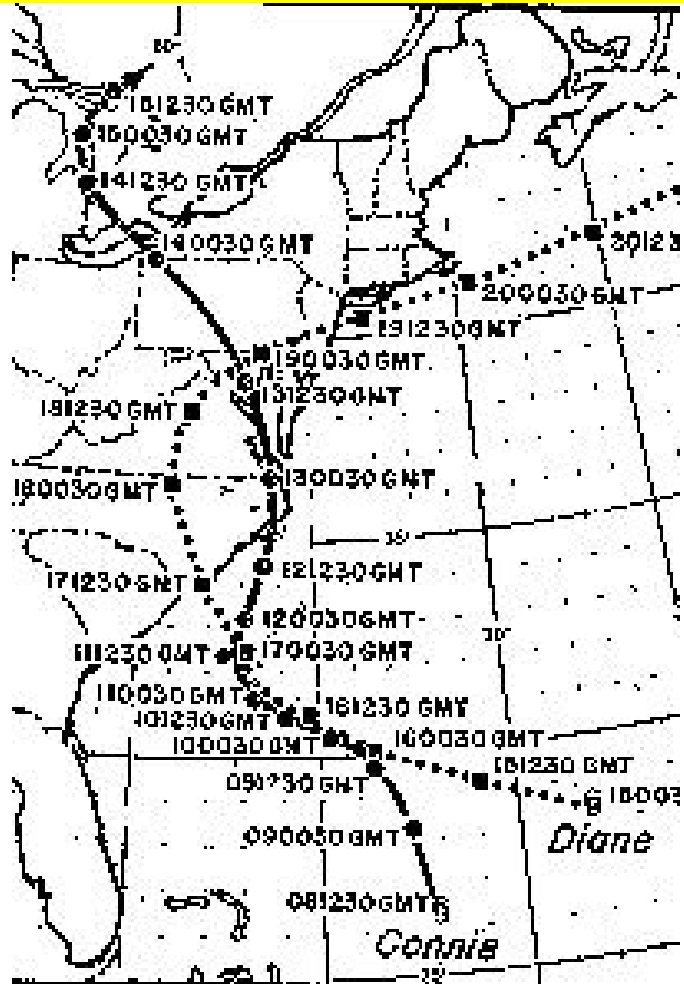
A week later, Hurricane Diane!

Flooding in the Appalachian town of Stroudsburg, near the Delaware Water Gap. Stories about the floods for days...

A month later, a TV special on the Stroudsburg Floods.

In 1955 Hurricanes Connie and Diane slammed the Northeast, especially in/near Stroudsburg PA.

https://www.weather.gov/nerfc/hf_august_1955



A bridge is washed away as a result of flooding from Hurricane Diane in August 1955. Location unknown. (The Evening News)

<https://www.pennlive.com/life/2019/08/rain-from-hurricane-diane-wreaking-all-types-of-havoc-in-pa-in-august-1955-vintage-photos.html>

Hurricanes Connie and Diane caused a flood disaster in Pa. in 1955

Published: Aug. 18, 2018, 10:00 a.m.

https://www.pennlive.com/life/2018/08/hurricanes_connie_and_diane_ca.html



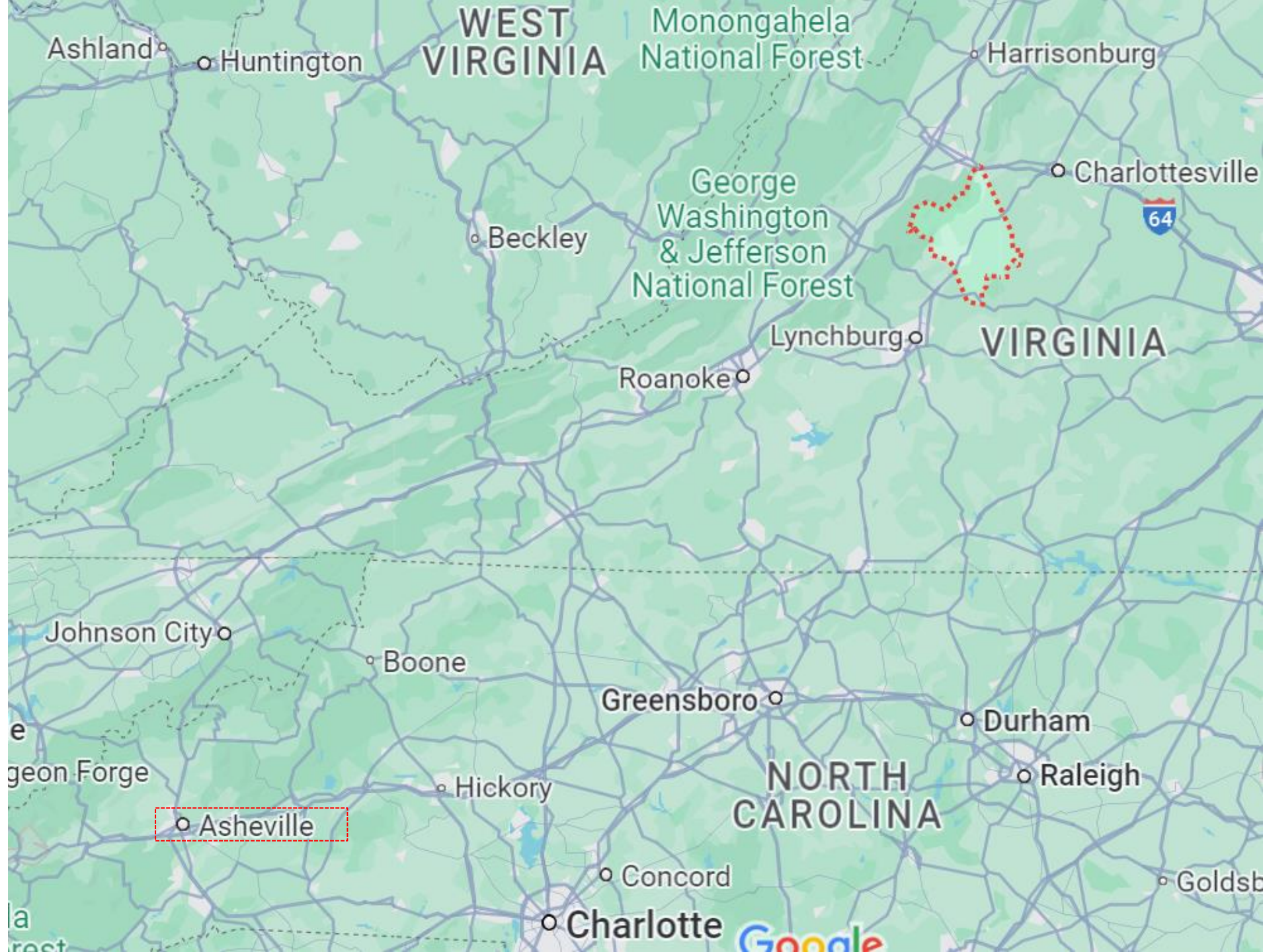
[Hurricanes Connie and Diane hit Pennsylvania hard in 1955](#)



<https://www.luc.edu/eminent-domain/siteessays/delawarewatergap/floodof1955/>

1969, remnants of Hurricane Camille wash out
Southern RR trestle across the Tye River,
Nelson County, VA

Zoomed-out Map of
Nelson County, VA,
in dotted red, with
Asheville NC,
faint red box.



Tye River – Aftermath of Hurricane Camille 1969

Posted by Doug Bess on August 25, 2021

<https://wvrails.net/?p=1855>

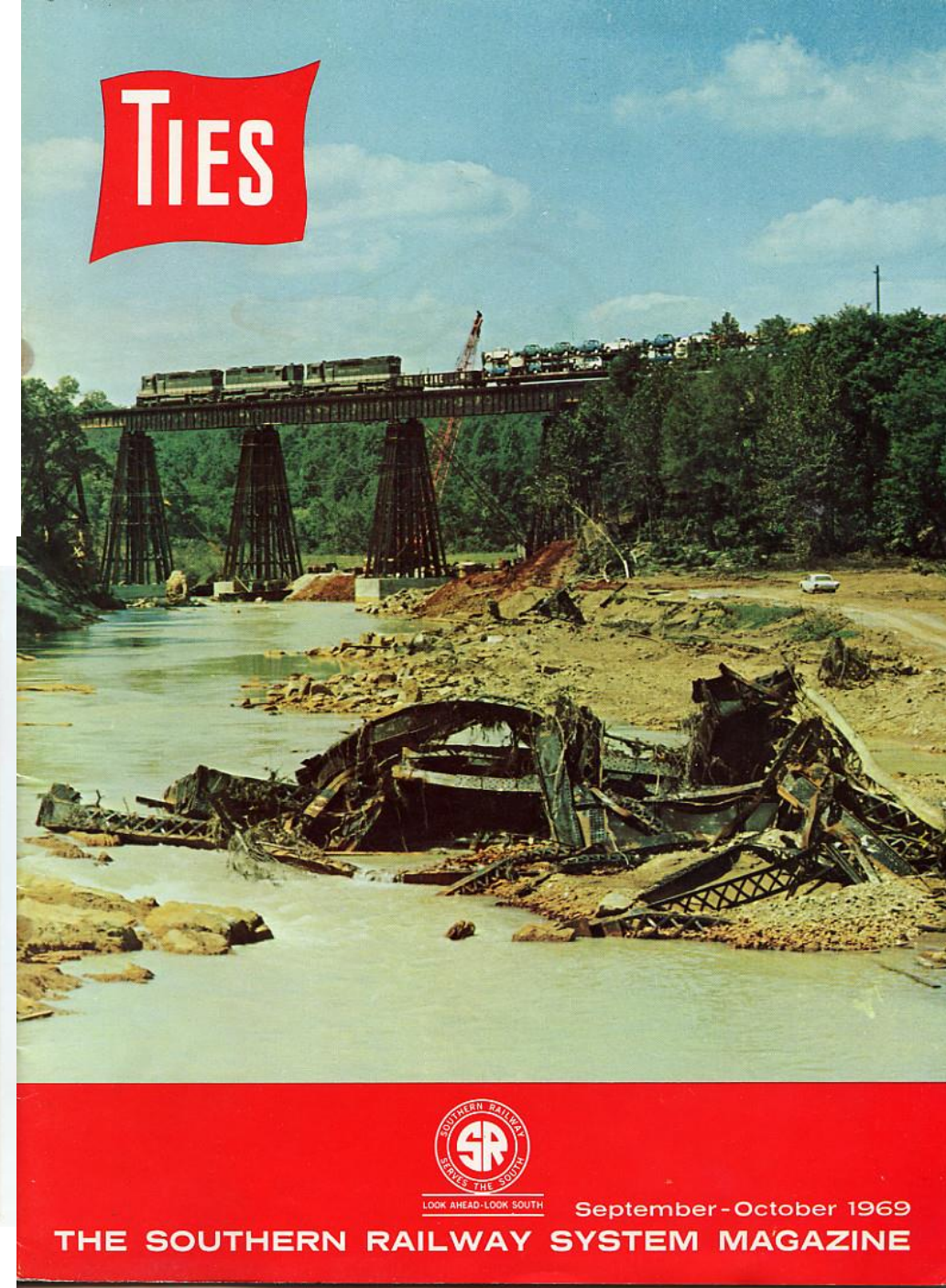
WVRails.net

Historic Railroads and Some Modern-Day Railroading

First bridge over the Tye was built in 1859 or early 1860 by the Orange and Alexandria Railroad Company, now part of Southern.



Second bridge over the Tye was completed in 1915 as a part of the double-tracking of Southern between Washington and Atlanta.



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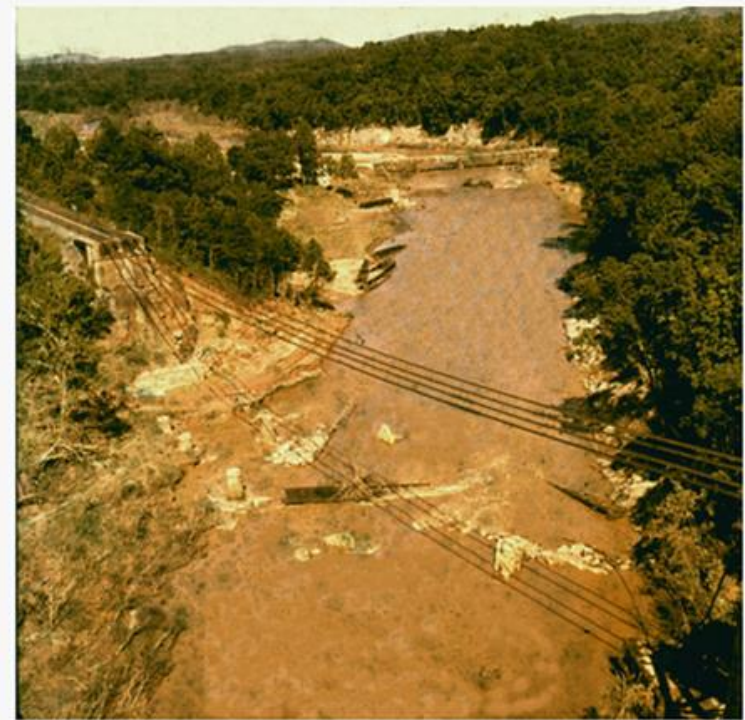
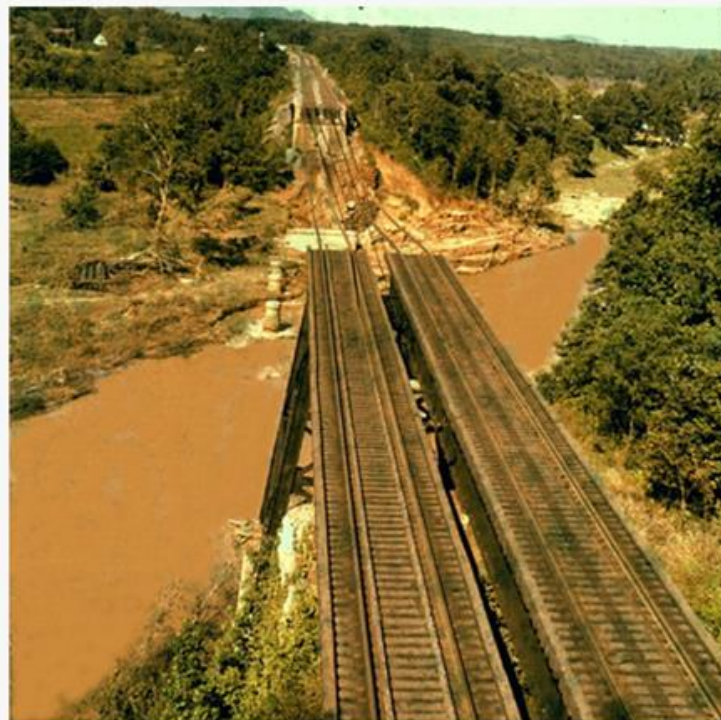
24

Second bridge over the Tye was completed in 1915 as a part of the double-tracking of Southern between Washington and Atlanta.

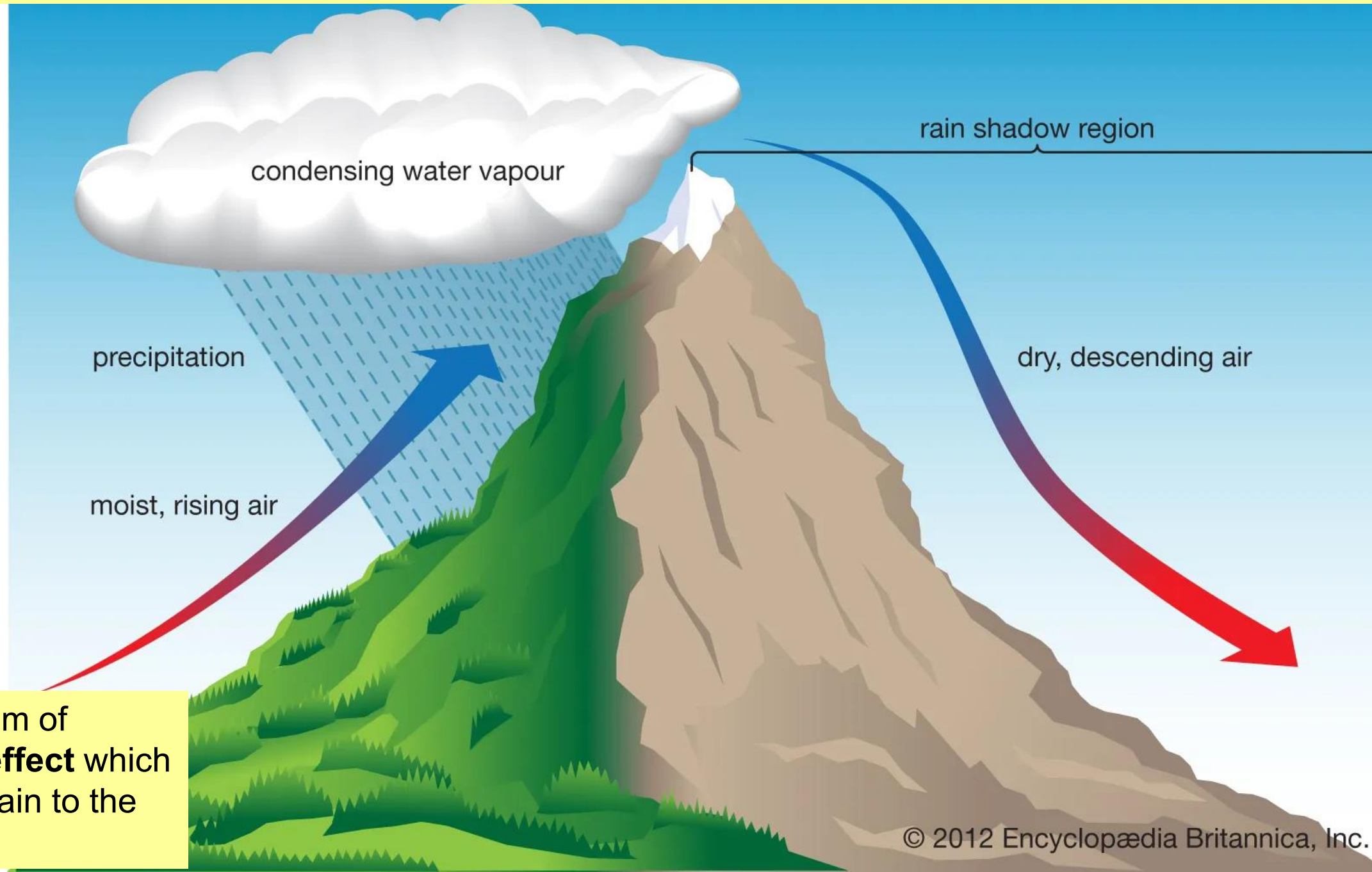


Top, historical photos of the trestle

Bottom,
1969, after the trestle was
severely damaged by
Camille's floodwaters.



Left photo is looking northbound. Tye River flows from left to right. Right photo shows welded rail strands over the river.



Britannica diagram of **orographic lift effect** which brings so much rain to the mountains.



Close up view of the North abutment of the bridge.



Tower bents under construction. Notice that caps are in place for the bent in the right foreground ready eventually to receive spans

1996, Hurricane Fran

Hurricane Fran, 1996

<https://appalachiantrailhistory.org/exhibits/show/hurricane/fran>

Hurricane Fran first made landfall near Cape Fear, North Carolina on September 6th, 1996. While the storm began as a Category 3 hurricane, its strength rapidly weakened upon landfall and it was classified as a tropical storm for most of its time inland. Even in its weakened state, the storm was still responsible for 27 fatalities and \$3.2 billion worth of damage. The areas that were hit hardest were the coastlines of the Carolinas and Virginia, but up to 15 inches of rain were also measured along the Appalachian Mountains, with the Blue Ridge Mountains of Virginia and West Virginia taking the brunt of the rainfall.

<underlining added>

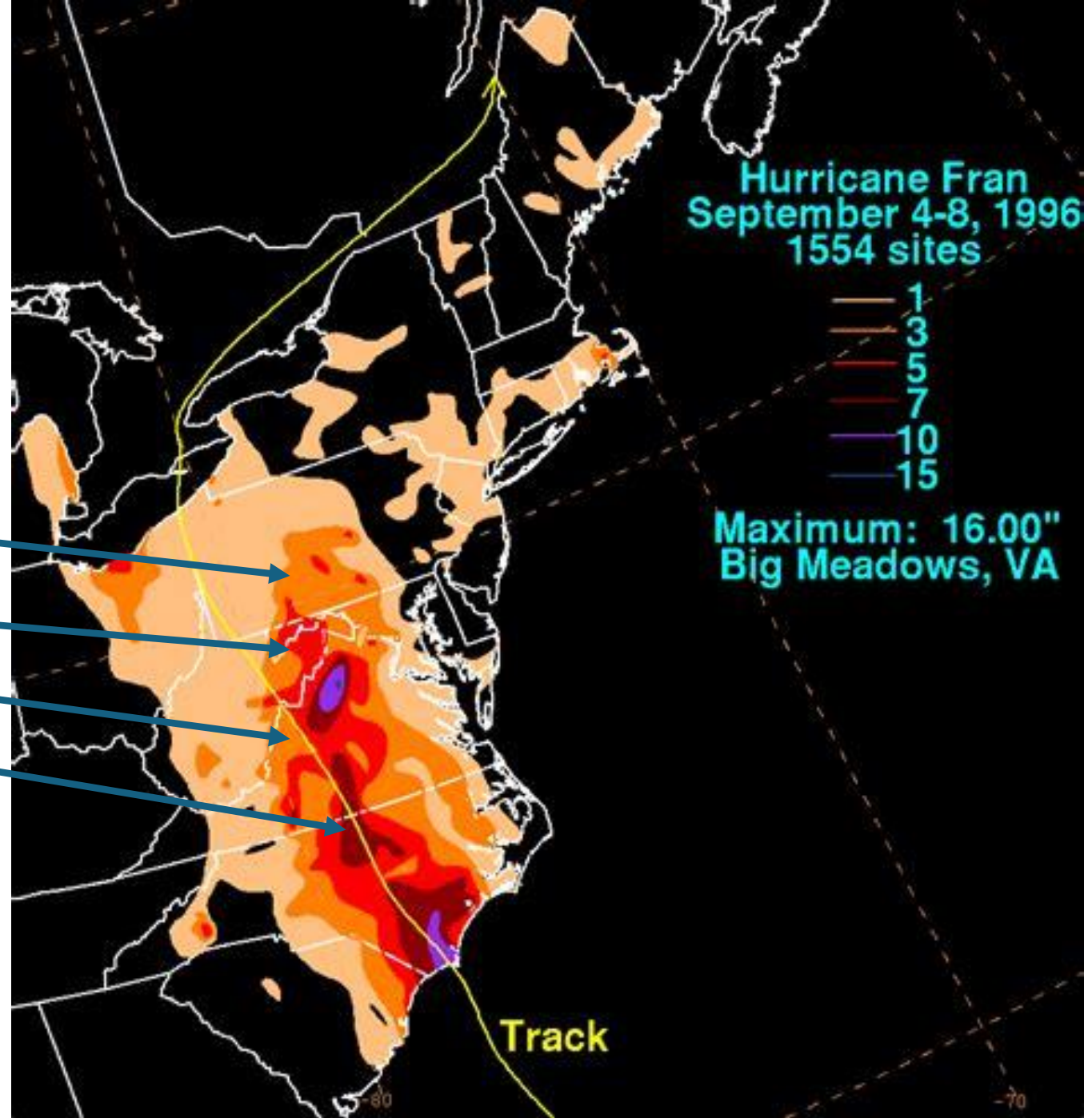
The rain brought in by Hurricane Fran could not have come at a worse time for the region. The hurricane brought buckets of rain into an area that was already overly saturated from a previous storm only days prior. This meant that Fran, which was already producing much more rain than usual due to ideal environmental events, caused severe flooding as the soil was too saturated to absorb much of the rain. The level of flooding was comparable to other extreme storms that had hit the area previously, such as Hurricane Juan (1985), Agnes (1972), and Dianne (1955). The worst of the flooding occurred in the Shenandoah River watershed of Virginia.

Shenandoah National Park had to close its trails and all of Skyline Drive following the storm. While not as many as the Great New England Hurricane, there were still substantial numbers of trees that had been downed during the storm. Skyline Drive had to be slowly reopened as it was inspected for damages to its infrastructure. The

Orographic lift in the mountains

Notice the propensity of large rainfall amounts to occur in those Appalachian Mountain and Piedmont areas.

Pennsylvania
western Maryland
Virginia
North Carolina





<https://bloximages.newyork1.vip.townnews.com/newsadvance.com/content/tncms/assets/v3/editorial/e/2b/e2bbea0c-6fae-11e6-b687-0be59e17c9c2/57c72c7579586.image.jpg?resize=1200%2C942>



https://climate.ncsu.edu/images/blog/NCExtremes/DamagingHurricanes/Fran_damage.jpg



Now, from some of our friends in the Climate Skeptic part of the Blogosphere:

<https://climateréalism.com/2024/10/no-media-hurricane-helene-was-not-worsened-by-climate-change/>



[HOME](#) [EXTREME WEATHER ▾](#) [ECONOMICS AND POLICY ▾](#) [CLIMATE CHANGE IMPACTS ▾](#) [UNDERLYING SCIENCE ▾](#) [TOPICS](#) [Q](#)

[Home](#) > [Extreme Weather](#)

EXTREME WEATHER FLOODS HEAVY RAINFALL

No, Media. Hurricane Helene was not Worsened by Climate Change



By **Anthony Watts** October 2, 2024



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Email

ClimateREALISM is published by the Heartland Institute.

The Heartland Institute also hosts The International Climate Change Conference series.

<https://climateréalism.com/2024/10/milwaukee-journal-sentinel-presents-master-class-on-hurricane-milton-and-climate-misinformation/>

The Milwaukee Journal Sentinel (MJS) shamefully attempted to cash in on Hurricane Milton as the storm ravaged the Florida coast, spreading false assertions and misinformation to further its aggressive climate change agenda. Presenting a Master Class on deception and sensationalism, the MJS claimed, “the message sent by this year’s hurricane season” is “climate change is here, there are no havens, and it’s deadly and expensive.” If the MJS and author Caitlin Looby had bothered to do research, they’d learn there never ~~was~~ <were> any “climate havens”.

Looks as if MJS is also part of the USA TODAY network ...as is the Las Cruces Sun-News.

milwaukee journal sentinel

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LOCAL NEWS

Wisconsin is not bracing for a hurricane. But the messages sent by Helene, Milton are loud and clear.



Caitlin Looby

Milwaukee Journal Sentinel

Published 5:07 a.m. CT Oct. 9, 2024 | Updated 10:40 a.m. CT Oct. 9, 2024



WILDLY WRONG



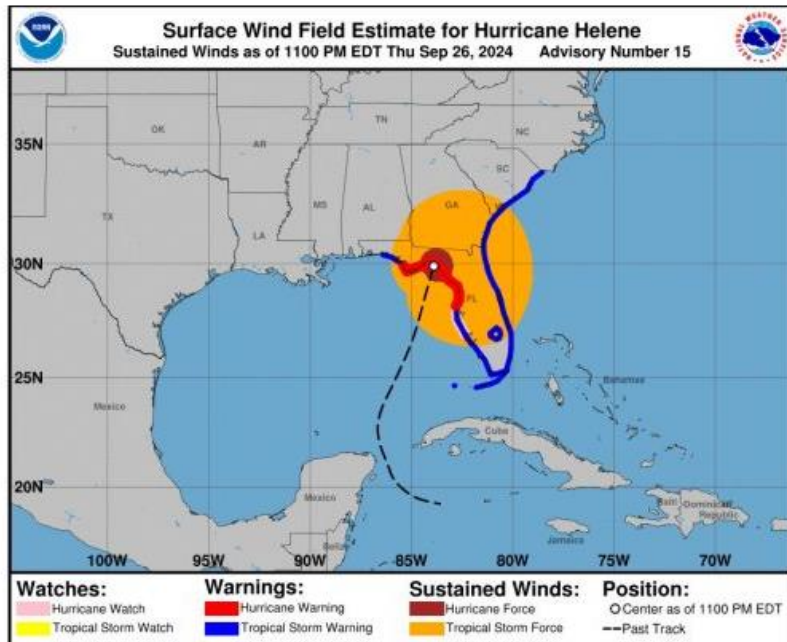
EXTREME WEATHER HEAVY RAINFALL HURRICANES

CBS Gets the Facts Wrong About Hurricane Helene and Hurricane Trends

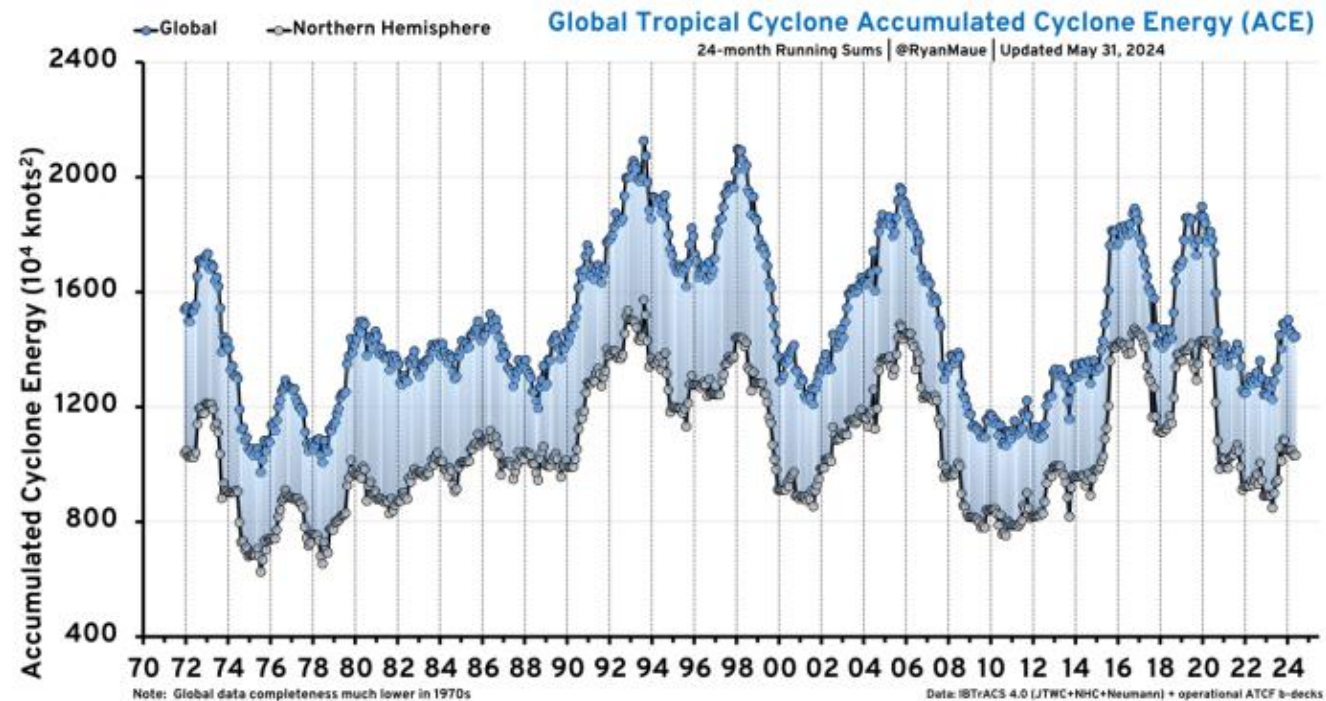
By Linnea Lueken October 1, 2024

2

Facebook Twitter Pinterest Email



“Accumulated Cyclone Energy is a metric used to track the overall strength of tropical cyclones over time, and if anything, the data here presented by Dr. Ryan Maue suggest they have been getting less powerful since the 1990s. (See figure below)”





THE HILL

How climate change is intensifying storms like Hurricane Helene

BY RACHEL FRAZIN - 09/27/24 6:36 PM ET

**WILDLY
WRONG**

FOLLOW ON
Google News



Mike Stewart, Associated Press

Rhonda Bell looks on after an Oak tree landed on her 100-year-old home after Hurricane Helene moved through, Sept. 27, 2024, in Valdosta, Ga.

Los Angeles' Jan 2025 fires

<https://casf.me/analysis-of-the-january-2025-los-angeles-wild-fires/>

Alarmists including the National Academies blamed Human-Caused, CO2-Fueled Global Warming

This is false. The set-up involves changeover from El Nino Wet to La Nina Dry, the extant climate. But the Palisade Fire was caused by an arsonist, but arsonists are a continuing problem, especially in SoCal.

The Mayor and her helpers are incredibly inept at running the city and the City Fire Department. Ineptitude and inability to manage water reservoirs and dead lined fire trucks while emphasizing Diversity Equity & Inclusion, and rejection of operational competence was a curse that allowed this fire disaster to happen.

The National Academies' blame on human-caused, CO2-Fueled Global Warming displays ineptitude and poor scholarship, poor marks for National Academy of Science.

Numerous writers and others claimed that the prime reason for Los Angeles' Jan 2025 fires was Human-caused, CO2-Fueled Global Warming:

<https://www.the-independent.com/voices/editorials/california-la-wildfires-climate-change-global-warming-b2677360.html>

“Stop playing politics with LA fires and address the key cause: man-made climate change”

<https://www.theguardian.com/us-news/2025/jan/17/trump-climate-change-la-fire>

“Climate change is adding fuel to the fire and it is absolutely outpacing our ability to adapt in certain areas,” said John Abatzoglou, climatologist at University of California, Merced.

<https://thehill.com/opinion/5087261-climate-change-wildfires-california/>

OPINION: “The main cause of California wildfires is climate change, rather than mismanagement”

<https://www.politico.com/news/magazine/2025/01/11/altadena-california-fires-climate-change-00197658>

‘Half the Country’s Thinking Magically’: California Fire Victims Grapple with the Political Paralysis Over Climate Change

<https://variety.com/2025/biz/news/climate-change-fuels-la-devastating-wildfires-1236272286/>

How Climate Change Has Fueled L.A.’s Devastating Wildfires: ‘We Have Unleashed Forces Beyond Our Control’

**NEWS ITEM,
9 OCT 2025**

Media Blamed 'Climate Change' for Palisades Fire Nightmare – Turns Out a Biden Donor, Climate Nut Just Got Charged for Arson

<https://www.climatedepot.com/2025/10/09/media-blamed-climate-change-for-palisades-fire-nightmare-turns-out-a-biden-donor-climate-nut-just-got-charged-for-arson/>



**Media Blamed 'Climate Change' for Palisades Fire Nightmare - Turns
Out a Biden Donor, Climate Nut Just Got Charged for Arson**

<https://www.climatedepot.com/2025/10/09/media-blamed-climate-change-for-palisades-fire-nightmare-turns-out-a-biden-donor-climate-nut-just-got-charged-for-arson/>

By Samantha Chang

Democrats and their left-wing media lapdogs beclowned themselves after their manufactured outrage claiming “climate change” had caused the Pacific Palisades fire earlier this year turned out to be a big, fat lie.

After spending months stoking climate hysteria by blaming oil companies and Republican policies for the [California wildfires](#), it turned out the blaze was started by a left-wing arsonist.

On Wednesday, the U.S. Attorney’s Office for the Central District of California charged [Jonathan Rinderknecht](#) — a former Pacific Palisades resident now living in Florida — with maliciously starting the Palisades Fire of January 2025.

“The complaint alleges that a single person’s recklessness caused one of the worst fires Los Angeles has ever seen,” Acting United States Attorney Bill Essayli said.

Here at CASF we have been all over the news stories that ...

Arsonists are the cause of many forest fires and wildfires.

Especially in California, Arsonists are a significant cause of fires

Let's start with just arsonists...

forest fires

Greece: More than 300 arsonists arrested

Climate scientists have determined that the fires in Greece this summer were caused by the burning of fossil fuels, rather than the hundreds of arsonists who started the fires.
(sarcasm by Tony Heller)

Prime Minister Mitsotakis said the increase in wildfires was not only due to the climate crisis. Numerous fires in recent weeks have been triggered by negligence or intent – with catastrophic consequences for residents and the environment. Mitsotakis referred to a tightening of the law of his government. Arsonists could – unlike before – no longer face mild penalties.



Firefighters battling the flames on the outskirts of Patras.
(From 13. August 2025) (Thanassis Stavrakis/AP/dpa)

<http://www.stuff.co.nz/science/7193129/What-global-warming-really-looks-like>



From 29 Jul 2012

Alarmist view of the Waldo Canyon Fire, Colorado Springs, 29 June 2012

My View: Man-caused reasons for this, and it is not <CO₂>

- 1. Accumulation of fire fuel with decades of insufficient tree harvest.**
- 2. Windy day at the end of the dry season during an extended La Nina Drought**
- 3. Terrorism by Arson:**
- 4. http://www.youtube.com/watch?v=SFHM0rd9cX8&feature=share&fb_source=message**

CBS Mornings

From 18 Jun 2013

Colo. wildfire arson? How investigators will track down blaze origins

June 18, 2013 / 8:25 AM EDT / CBS News

(CBS News) The worst wildfire in Colorado history could lead to a criminal investigation.

Officials have ruled out a "natural" origin for the Black Forest fire, near Colorado Springs, but finding the cause may be even harder than putting it out. Investigators suspect the Black Forest fire that destroyed more than 500 homes -- the worst in Colorado history -- was caused by humans....

“...A year after a fire 12 miles away in Waldo Canyon burned 350 homes, investigators still don't know if someone set it deliberately.

Veteran arson investigator Doug Allen said, "There are fires that we look at that we just can't find the cause..."

CASF describes California's Arsonists

Here at CASF, we have described the seemingly annual incidence of arsonists involved in lighting wildfires and forest fires in California.

What follows are several stories, instances from my computer archives...California Arsonists...

Arsonists have sparked some of California's worst blazes

By **Hamed Aleaziz**, Reporter

Updated Aug 16, 2016 6:55 p.m.



A firefighter puts water on a burning tree as flames approach a containment line, while fighting the King fire near Fresh Pond, Calif. Thursday, Sept. 18, 2014. Authorities arrested Wayne Allen Huntsman, 37, Wednesday and have charged him with deliberately

When authorities concluded that an arsonist sparked the ruinous Clayton Fire in Lake County, it wasn't the first time. Arson is among the leading causes of wildfires, which are also ignited by lightning, unattended campfires and compromised power lines, among other things. When investigators identify an alleged firebug in a devastating blaze, the consequences can be heavy. Some notable cases:

King Fire (2014)

After Wayne Allen Huntsman pleaded guilty to starting the fire that burned nearly 100,000 acres of land and 12 homes in the central Sierra east of Placerville (El Dorado County), he was sentenced to 20 years in prison. Prosecutors discovered a selfie video Huntsman made at the fire's origin.

Humboldt Fire (2008)

From <https://casf.me/critique-of-the-june-2021-aarp-bulletin-climate-change-and-you/>

This section: **CALIFORNIA'S STRONG EAST WINDS BEGINNING IN OCTOBER, THE DIABLO AND SANTA ANA WINDS**

In the case of El Norte winds, strong winds from the north affect the Colorado River basin of California and adjacent Arizona. A physical property of the atmosphere takes hold when the air blows, for instance, from the high country of Nevada into California. The air warms “*dry adiabatically*” (it warms by compression) as it descends into the interior valleys of California and the coastal communities.

The chunks or “*parcels*” of air get hot and dry in a hurry. This feature is so well known that California's arsonists are also very aware of this annual set-up for fire danger. Sadly, the arsonists often ignite blazes which quickly can become infernos, because the hot, dry winds provide extra oxygen into flames which burn tinder-dry grasses, other undergrowth, and trees which have not seen rainfall since early the previous spring.

NATION

Arson

California man who set 11 fires in national forest sentenced to two and half years in prison



Jessica Skropanic

Redding Record Searchlight

Feb. 14, 2023, 2:53 p.m. ET



REDDING, Calif. – A northern California man was [sentenced on Monday for setting 11 fires in the state's Shasta-Trinity National Forest](#) in one year, according to U.S. Attorney Phillip Talbert.

Eric Michael Smith, 41, of Redding, California, was sentenced to two years and six months in prison for serial arson, Talbert said. He was also ordered to pay \$19,071 in restitution to the U.S. Forest Service.



A firefighters backs up his car at City Creek Road as the Line Fire burns in the San Bernardino Mountains, forcing evacuations for

What fire authorities say : According to Cal Fire officials, about 10-15% of wildfires over the last five years were the result of arson.

By the numbers: Pointing to published data from 2022 as an example, Gianni Muschetto, staff chief of law enforcement at Cal Fire, said there were 358 arson fires in the state that year, amounting to about 12,000 burned acres.

San Bernardino County authorities announced this week that a 34-year-old man had been arrested and accused of igniting the Line Fire, which has burned more than 37,000 acres in San Bernardino County.

So how often is arson to blame for wildfires in California?

All the ways people start California wildfires



BY LYNN LA
JULY 31, 2024

<https://calmatters.org/newsletter/park-fire-arson-salmon/>



Ballooning to more than three times the surface area of Lake Tahoe, Park Fire is now the fifth largest fire in California's history. Last week, investigators arrested a 42-year-old Chico man suspected of starting the blaze by pushing a burning car into a ravine.

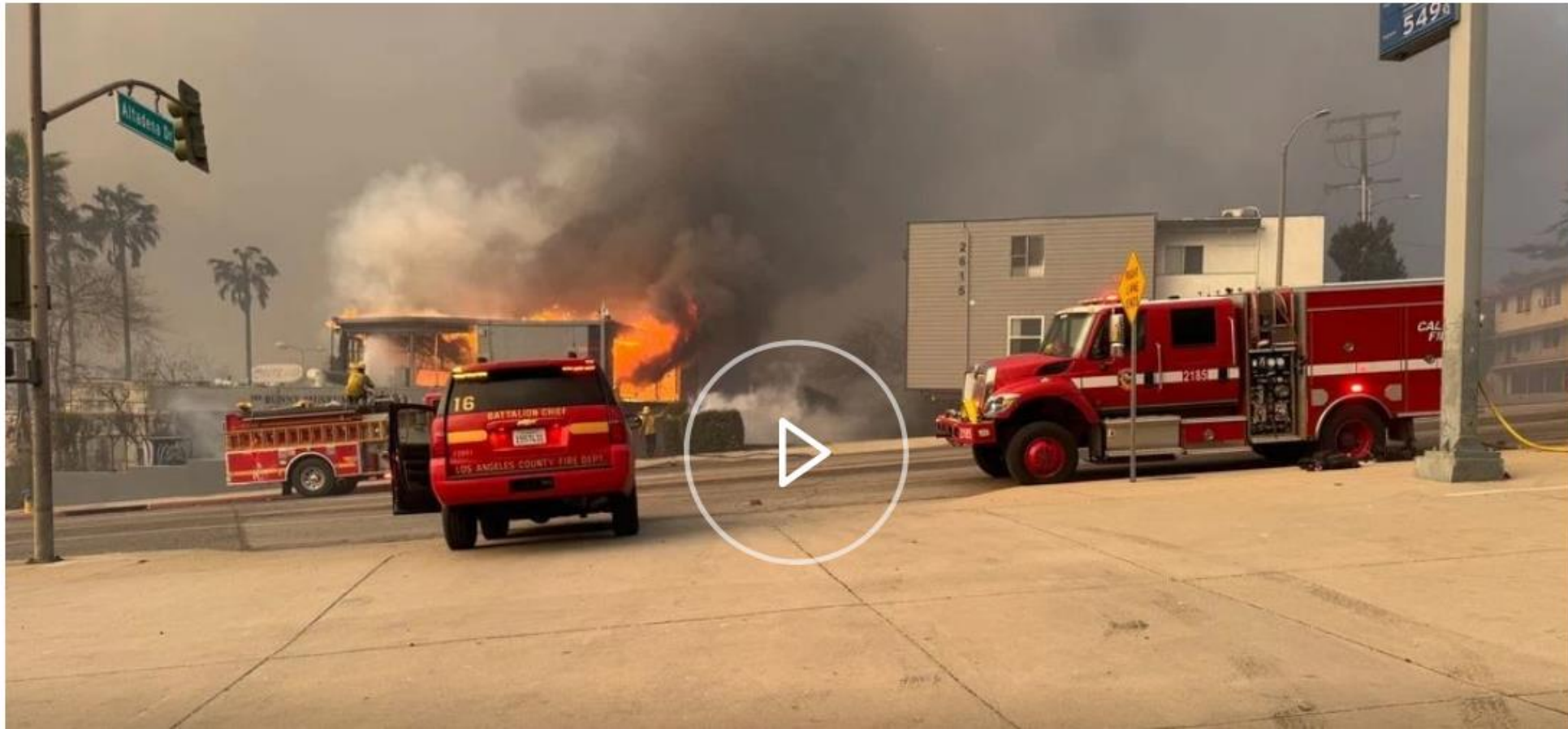
People walk on the road near flames and rising smoke plumes as firefighters continue to battle the Park Fire near Chico on July 25, 2024. Photo by Fred Greaves, Reuters

Arson arrests surge in California over past decade, Cal Fire reports

<https://krcrtv.com/news/local/arson-arrests-surge-in-california-over-past-decade-cal-fire-reports>

by Sophia Bruinsma | Thu, January 9th 2025 at 8:00 PM

Updated Thu, January 9th 2025 at 9:49 PM



SoCal serial arsonist who started 44,000-acre wildfire was caught by a license plate reader

<https://www.latimes.com/california/story/2025-10-02/serial-arsonist-line-fire-conviction>



A firefighter douses hot spots after the Line fire engulfed a home in Running Springs in September 2024. (Gina Ferazzi / Los Angeles Times)

The key to fire destruction can be seen when El Nino-fed winter rain and snow change over to La Nina-dominated drying. The change over usually leads to fire catastrophe.

The extant climate and this climate pattern that is the set-up for California's Wildfires

Image below shows the destruction on 2 Feb 2017 when melting snow runoff tore up the Oroville Dam.



© Associated Press Photo/KCRA

Yet, by December 2017, the lack of fall rainfall dried out California so much that the Santa Ana Wind-driven Thomas Fire devastated southern California.

**In the news today...the Thomas Fire...
California's Santa Ana Winds and
Autumn's Wildfires**



Bob Endlich

bendlich@msn.com

Cruces Atmospheric Sciences Forum

16 December 2017

Potential Fire Weather Risk

Next Tuesday - Thursday (Jan 7-9)

**Chance of moderate-to-strong
Santa Ana winds,
*combined with dry air and vegetation.***

Ready, Set, Go!
Readyforwildfire.org

Impacts: Extreme fire growth/behavior possible if a fire starts and power outages

Use extra caution with potential fire sources!



NATIONAL WEATHER SERVICE
Los Angeles / Oxnard weather.gov/losangeles

Issued Thursday January 2, 2025

Follow Us:



Issued Thursday 2 Jan 2025. The fires broke out Tuesday 7 Jan 2025: Over 4 days lead time!

LIFE-THREATENING & DESTRUCTIVE WINDSTORM !!!

EXTREME RISK – Take Immediate Action

LOCATIONS OF GREATEST CONCERN

Areas within the magenta-outlined area, including...

*Highways 118/210 corridors, San Gabriel / Santa
Susana / Santa Monica Mountains & Foothills;
San Gabriel and San Fernando Valleys*

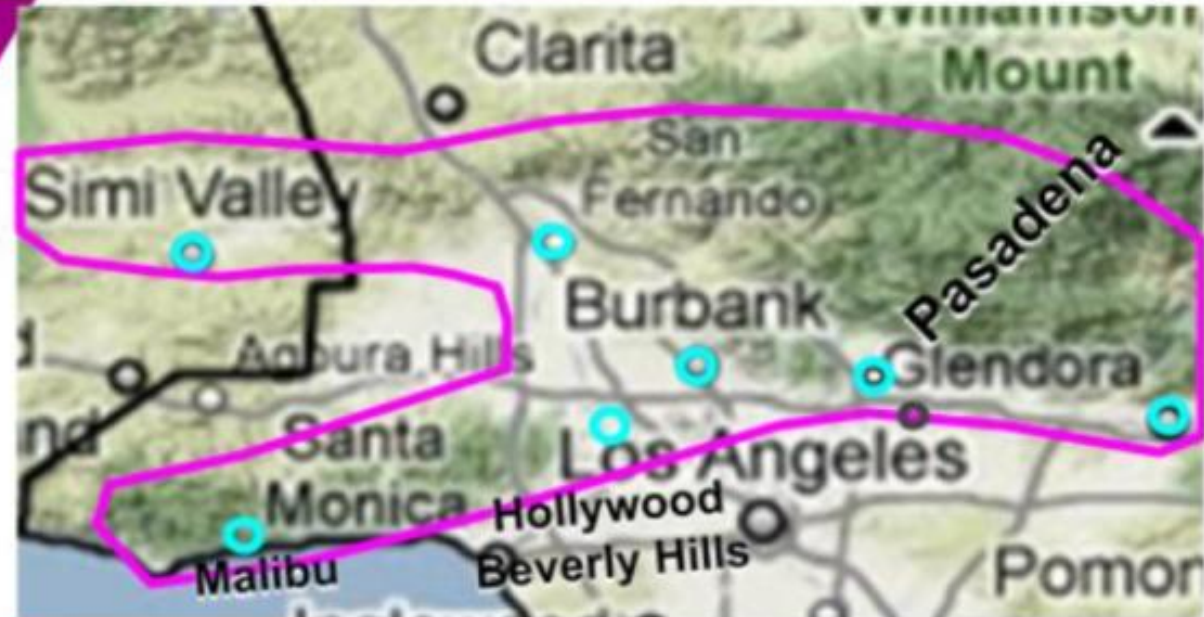
*Stay indoors & away
from windows

*Expect power
outages



*Pasadena, Burbank,
San Fernando, Hollywood,
Beverly Hills, Simi Valley,
Sylmar, Porter Ranch,
Altadena, La Crescenta,
Malibu*

Tues afternoon-Weds morning



***** Important: Damaging winds also expected
outside of magenta-outlined areas *****



weather.gov/LosAngeles

Weather Forecast Office - Los Angeles/Oxnard, CA

Updated: Monday January 6, 2025 at 10:30 am



Severe Windstorm and Extreme...

Follow:



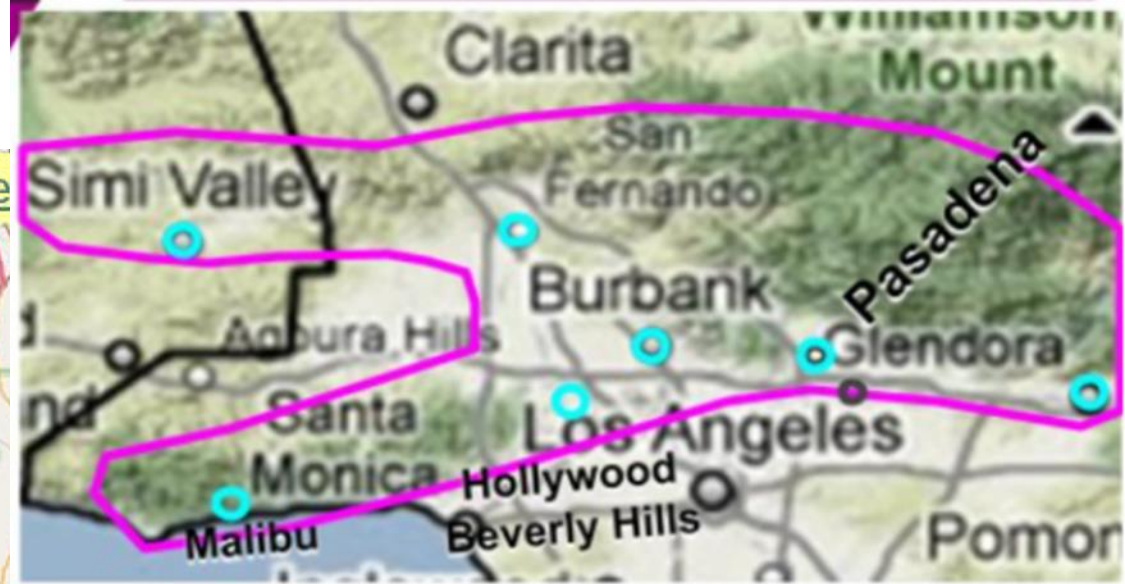
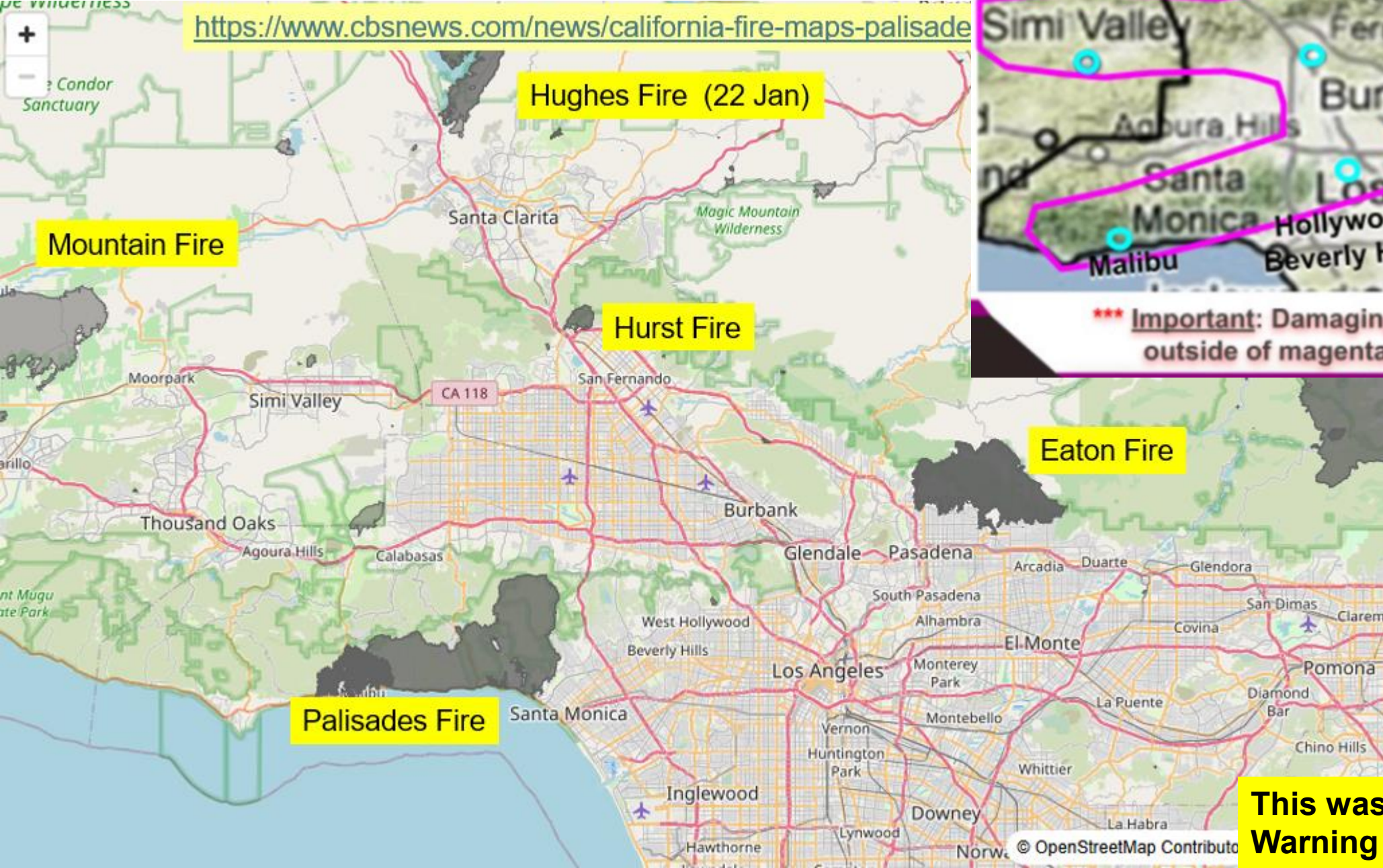
[nwslosangeles](#)

[Warnings and Forecasts](#)

Updated Monday January 6, 2025, 1030 Local, the day before the fire storm.

Side-by side comparison with the NWS forecast (inset, right) with the observed fire areas in black, below.

<https://www.cbsnews.com/news/california-fire-maps-palisades>



*** **Important:** Damaging winds also expected outside of magenta-outlined areas ***

This was an OUTSTANDING Warning by the NWS!

<https://www.nationalreview.com/news/l-a-mayor-karen-bass-claims-she-wasnt-aware-of-wildfire-warnings-when-she-left-the-country/>

BOB'S OPINION:

As the leader of City Hall, it is the duty of the Mayor to organize the work of City and other employees, to present her the operational, maintenance, logistics, labor, financial, administrative, resources, scheduled events, **even the weather, so that she knows** the status of the city.

She is supposed to be in charge.
She should act as if she is in charge.

Having and conducting a daily or several times weekly Ops Briefing, making her aware, might be a good place to start!

L.A. Mayor Karen Bass Claims She Wasn't 'Aware' of Wildfire Warnings When She Left the Country



Los Angeles Mayor Karen Bass leaves a press conference as she visits the FEMA Disaster Recovery Center following wildfires in Los Angeles, Calif., January 14, 2025. (Daniel Cole/Reuters)

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 **CBS NEWS**

[U.S.](#) [World](#) [Politics](#) [Trump Tariffs](#) [HealthWatch](#) [MoneyWatch](#) [Entertainment](#) [Crime](#) [Sports](#)

U.S.

A month before fires, L.A. fire chief warned budget cuts were hampering emergency response

By **Julia Ingram**

Updated on: January 13, 2025 / 9:35 AM EST / CBS News



CALIFORNIA WILDFIRES

Los Angeles cut \$17.5M from fire department budget months before deadly fires

Seven months before the uncontrolled [Palisades Fire in Los Angeles](#), the city's fire department budget for this fiscal year was cut by more than \$17.5 million, records show.

Mayor Karen Bass signed the City of Los Angeles' budget for the 2024-2025 fiscal year.

The total budget for the city's fire department was \$819.64 million. Records show that for the previous fiscal year, the LAFD's total budget was \$837.2 million.

The total budget includes salaries, expenses and equipment.



The Causes of California's Devastating Fires and How They Could Have Been Prevented: Edward Ring



LIVE: HOSTAGE EXCHANGE

POLITICS

LOCAL

● WATCH LIVE



<https://www.youtube.com/watch?v=fXSeXqzx7rQ>

WESTERN WILDFIRES

Decades of mismanagement led to choked forests – now it's time to clear them out, fire experts say

“Forest management is a lot like gardening. You have to keep the forest open and thin,” said Mike Rogers, a former Angeles National Forest supervisor.



Former Mayoral Candidate Rick Caruso's quotes:

"The level of incompetence by both elected and appointed leadership is like nothing I have ever seen ."

"No one has taken responsibility for this..." Q: Who?

**"Mayor Bass. Head of DWP. (Division of Water and Power)
How did the second largest city in the country run out of water?"**

"You had 40 years of brush that had not been managed."

"I told (then-Mayor) Garcetti that <an I-405> fire in Brentwood could move down the hills and engulf the Palisades"(because of the uncleared brush)

"The Fire Department had been underfunded for 10-15 years"

"We have Fire equipment that has been mothballed, sitting in yards, because we don't have mechanics to have them repaired so they can operate. That's a sin!"

"Mayor Bass cut the Fire Department even more this year, and the (Fire) Chief said publicly, "This will impact our ability to keep people safe." "

For some reason, the Fire Department did not deploy (forward).

<https://www.youtube.com/watch?v=pTxDPV0LD0s>



**How California's Leaders Caused the LA Fire Devastation |
Former LA Mayoral Candidate Rick Caruso**

"I got a call from one of my senior leaders in the Command Center...'your daughter's house just burned down. The hydrant ran out of water'

"They ran out of water because they did not manage the water supply."

City ran out of water to fight the Palisades Fire because the 120 Million-Gallon Santa Ynez Reservoir was ~ dry

Victor Davis Hansen reported:

“The 120-Million Gallon <Santa Ynez> Reservoir had been idle for ~1 year because cover had been torn.”

Mchael Shellenberg reported,

A cover was needed because the reservoir supplies water for drinking and for fire fighting. The torn cover allowed bird poop to get into the water supply, so the city did not put water into the Santa Ynez Reservoir.

Repairing this cover was not put on the priority list of stuff to fix.

No one in the Water Department told the Fire Department that the Santa Ynez Reservoir was almost empty.

Mayoral Candidate Rick Caruso: “They ran out of water because they did not manage the water supply.”

This video by Victor Davis Hansen tells a good story of this fire episode:

<https://www.foxnews.com/video/6367142814112>

Significant points by Victor Davis Hansen: Climate Change played no role.

LA Mayor Karen Bass cut the Fire budget by ~\$18M; had plans for further cuts

**There was no one in charge when the (Palisade, Eaton and Hurst) Fires broke out.
Mayor was in Ghana; Deputy Mayor was suspended (phony bomb threat);**

Public Service Dept.--troubled— a previous head was convicted and in prison for bribery.

Fire Chief was proudest of being female and gay, rather than demonstrated ability to fight fires and manage Dept.. Hired 70% new hires under DEI. Said her job started at the fire hydrant (but many, ~300) hydrants had no water.

120-Million Gallon <Santa Ynez> Reservoir had been idle for ~1 year because cover had been torn.

Gov Newsom came into office with \$7.5 Billion budget to build 3 new reservoirs; didn't build any.

California Water Project Aqueduct flow was tapped over the years for side users; less water for Los Angeles, while LA's population grew. Newsom let water out to Pacific to please environmentalists.

California Forests were not taken care of, cleaned of dead brush, for years. Down to 3 sawmills.

A Sequence of Events and suggested fixes....

By 2017's Thomas Fire, there had been at least three extensive fire episodes in California which showed the pattern of El Nino, then changeover to La Nina:

Wet winter, lush vegetation, but no Fall onset of the winter rainy season: 1991, 2007, and 2017.

In Jan 2025, Los Angeles National Weather Service Office forecast the Specific Onset of extreme fire danger with this progression of products:

2 Jan 25 Fire Weather Statement

3 Jan 25 Fire Weather WATCH

4 Jan 25 Fire Weather WARNING

5 Jan 25 RED FLAG Fire Weather WARNING

6 Jan 25 EXTREME FIRE RISK Statement

The **Palisades Fire** started 1030 on **7 Jan 2025**, the **Eaton Fire** Started at 1830 on 7 Jan 2025, and the **Hurst Fire** began at 2230 on 7 Jan 2025

Despite a history of extensive, even catastrophic previous fire events in Coastal California, no one appears to have presented the fire danger to Mayor Karen Bass... Nor had she requested this..

Elected and appointed leadership had no “fingers on the pulse” on either the insufficiency of the water supply to significant residential areas of Los Angeles, or the number of fire fighting vehicles dead-lined for maintenance.

Indeed, there appears to be a practice of using the Fire Department's budget as a "piggy bank," convenient to use these funds for non-fire non-emergency purposes.

There appears to have been no City Staff Organization to present the City's Operational Capability to respond to emergency conditions. Nor is one in the making....

BRIEF SIDEBAR

- The US Army has a subject area that teaches middle-grade officers, typically Majors: "Military Decision-Making Process," MDMP for short, to present leaders with problems and solutions for decision making. These lessons are usually put into Army Field Manuals, so the lessons become doctrine.
- The US Army also has an organization, Center for Army Lessons Learned, CALL, to institutionalize lessons to insure there is no repeat of serious blunders.

END SIDEBAR

Los Angeles seems to have no organized leadership methodology to incorporate lessons learned from previous Los Angeles Area fire disasters.

Los Angeles did not learn the lesson of 6 Dec 1961, to Forward Deploy resources in the face of dire fire weather forecasts, despite, the early Jan 2025 National Weather Service repeated dire warnings.

My Opinion, seems to reek of Criminal Negligence, but my guess is no one will take or be assigned the blame for this woeful lack of preparedness, and, as of now, to take action to insure this does not recur.

Other thoughts...

The Military has a way to ensure that someone is in charge, to take command, to direct Operations.

Line Officers are ordered by Rank and Date of Rank, so there always will be someone in charge, available to make decisions. The principles of Rank, Precedence and Command are instilled in Basic Training...because... it is basic to the military's mission.

During Market Garden, when the British Paratroops were on the North (East) side of the Rhine, the British effort fell apart in part because two British Colonels could not agree who had command. Many died. Market Garden failed miserably.

The Army Organization with which I served was VII Corps, during the Cold War, 1979-1982.
<Later they were the Army Corps deployed to Saudi Arabia and were part of Desert Storm in 1991.>

Many military organizations tasked with continuous operations, typically commanded by a Colonel or Navy Captain, have a Vice Commander or Executive Officer, who takes over when the Commander is temporarily absent.

These principles are extant in the military, as are the Operations Briefing, when troops are in the field.

While the City Council is not a military organization, there appears to have been no similar organizing and operating principles in Los Angeles. There was no one in charge when this Fire Catastrophe occurred.

Concluding Comments

In my career, with many years as an Operational Meteorologist, I'm drawn to the Back Story, one of managerial and technical ignorance, and operational ineptitude of Los Angeles' Mayor, Karen Bass.

It is not difficult to put into words the seemingly in-plain-sight management failures within the leadership of the City of Los Angeles that led to this catastrophe:

- Many firetrucks were dead-lined for maintenance.
- Large portions of the Water Supply were nearly empty because a cover to prevent bird poop from landing in Santa Ynez Reservoir was torn, not repaired.

Concluding Comments Pg 2

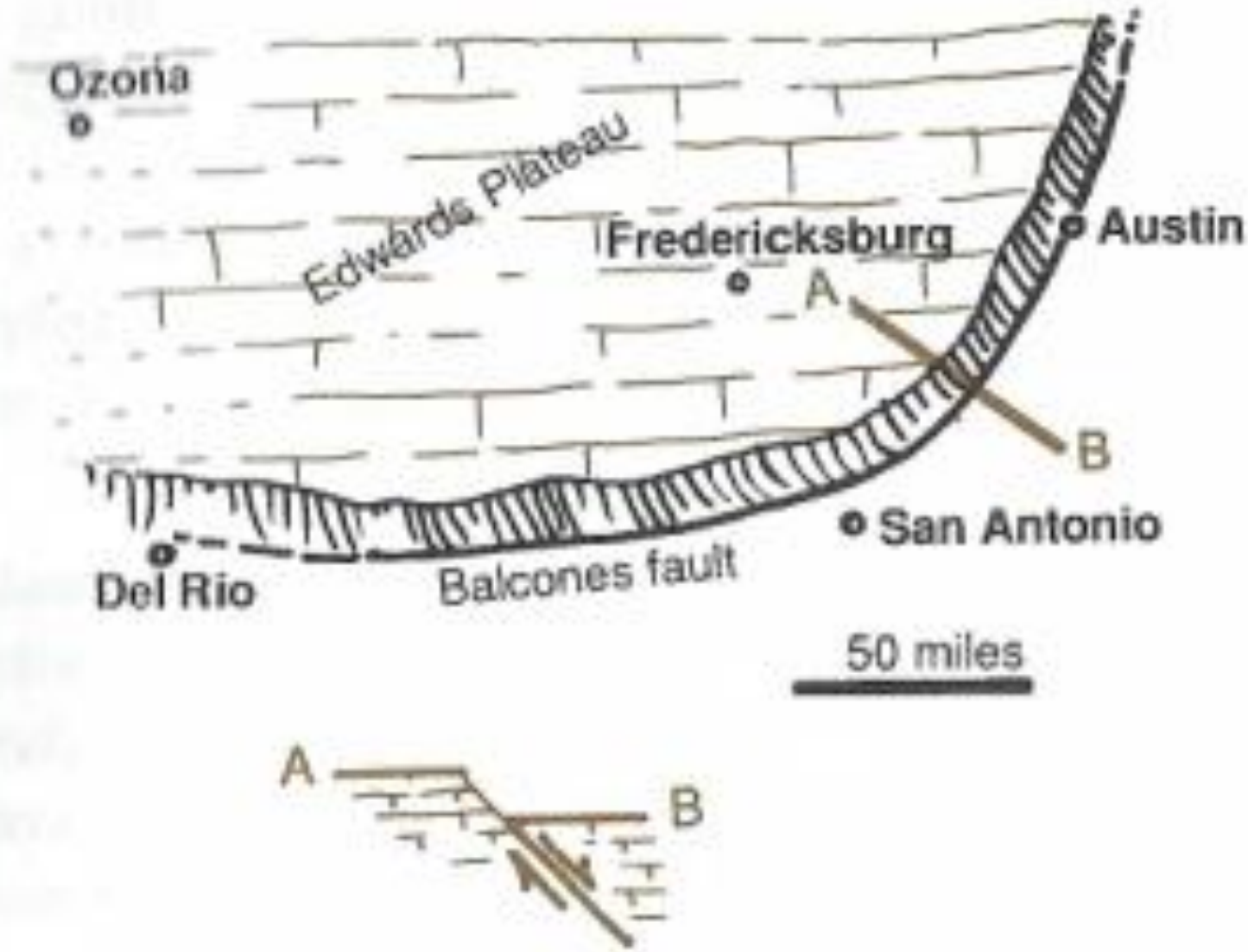
- No one in the Water Department told the Fire Department that the Water Supply was low, and the water supply could not provide the water needed to fight a large fire
- The Mayor had not organized her staff to tell her of these management deficiencies.
- Evidently there was no daily or several times weekly Ops Briefing to tell her of City capabilities for emergency response to catastrophic events such as wildfire.
- The Deputy Mayor was suspended; there was no one in charge when Mayor Bass left for Ghana.

And yet we get from the National Academies, the story in the red-bordered box below

The overall nature and quality of the report can be assessed from the first few sentences in the report's preface: "As the committee undertook this project, it was hard not to think about recent climate-related disasters: the heavy rainfall of Hurricane Helene that destroyed homes and roads in the mountains of North Carolina, the fast-moving wildfires that displaced thousands in Los Angeles and affected air quality for miles around, and the rapid flooding of the Guadalupe River in central Texas that led to at least 135 fatalities."

The descriptors, "ignorant," "inept," and "poor scholarship," come to mind.

<https://casf.me/the-central-texas-floods-of-4-jul-2025-tragic-loss-of-human-lives/>



Ten Million years ago the Edwards Plateau was uplifted along the Balcones Fault.

This graphic shows how the geographical location of Texas' Flash Flood Alley is directly related to the location of the Balcones Fault Zone

<https://casf.me/the-central-texas-floods-of-4-jul-2025-tragic-loss-of-human-lives/>



Figure 3. Graphic from the Austin Statesman showing the location of Flash Flood Alley, dark gray shading. The darker gray shaded area shows the drainage area of the Guadalupe River.

Look at the point rainfall totals, from NOAA and put into this table by Richard Burt.

The notion that human-caused, CO2-fueled global warming is the source for dramatic increases in heavy rain is belied by the data.

The NEWEST (!) extreme rainfall entry into the record book is 43 inches of rain in 24 hours at Alvin, TX, between Houston and Galveston in July 1979, 46 years ago!

<https://casf.me/the-central-texas-floods-of-4-jul-2025-tragic-loss-of-human-lives/>

The National Academy of Sciences clearly has no idea of what it is talking about here!

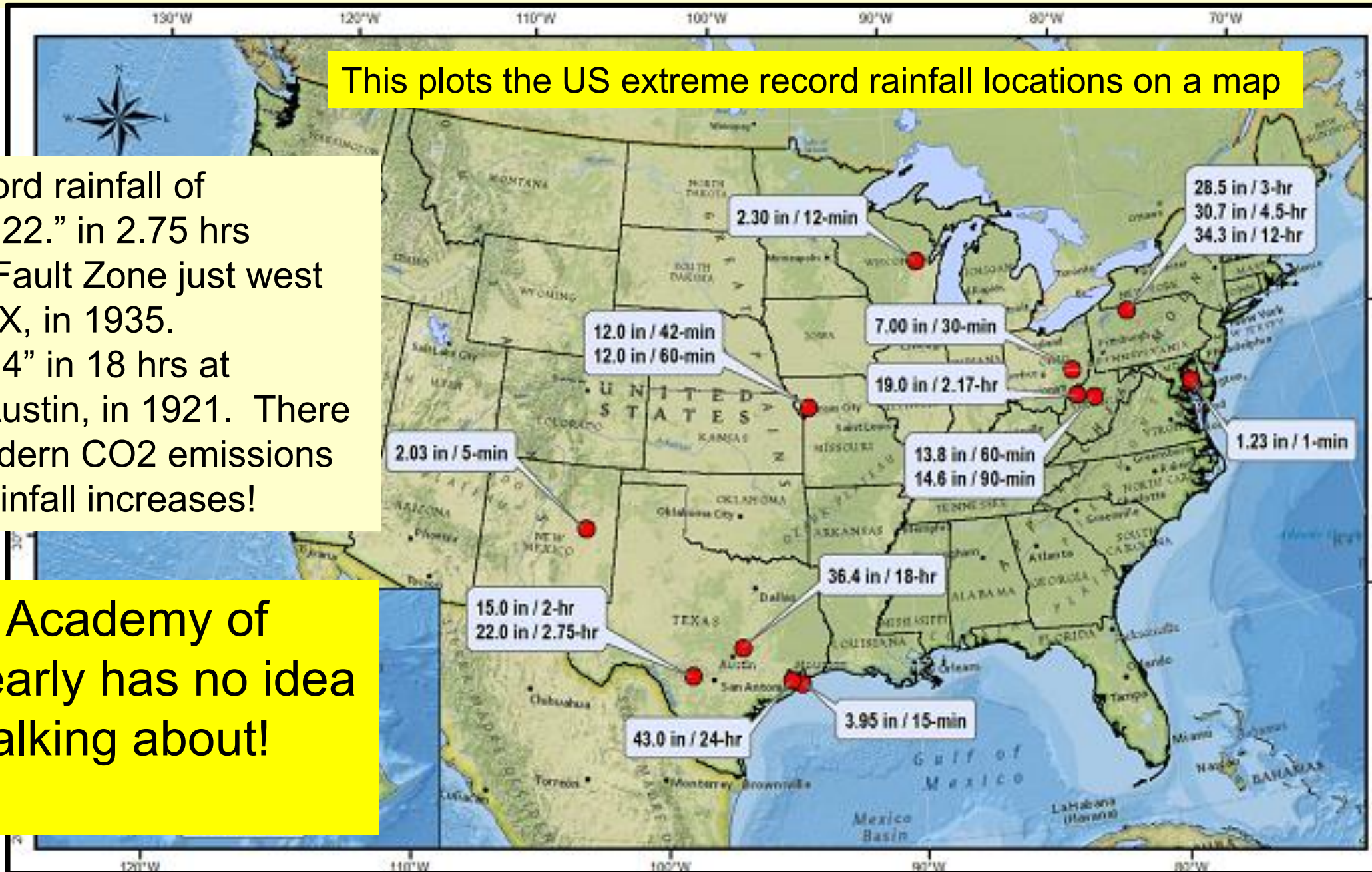
U.S. Record Point Rainfalls			
Time	Rainfall	Location	Date
1 minute	1.23"	Unionville, MD	7/4/1956
5 minutes	2.03"	Alamogordo Creek, NM	6/5/1960
12 minutes	2.30"	Embarrass, WI	5/28/1881
15 minutes	3.95"	Galveston, TX	6/4/1871
30 minutes	7.00"	Cambridge, OH	7/16/1914
40 minutes	9.25"	Guinea, VA	8/24/1906
42 minutes	12.00"	Holt, MO	6/22/1947*
1 hour	13.80"	Central WV	5/4-5/1943
1 hour 30 minutes	14.60"	Central WV	5/4-5/1943
2 hours	15.00"	Woodward Ranch, (D'Hanis) TX	5/31/1935
2 hours 30 minutes	19.00"	Rockport, WV	7/18/1889
2 hours 45 minutes	22.00"	Woodward Ranch, (D'Hanis) TX	5/31/1935*
3 hours	28.50*est.	Smethport, PA	7/18/42*
4 hours 30 minutes	30.70"	Smethport, PA	7/18/42*
12 hours	34.30"	Smethport, PA	7/17-18/1942
18 hours	36.40"	Thrall, TX	9/9/1921
24 hours	43.00"	Alvin, TX	7/25-26/1979
4 days	62.00"	Kukaiiau, Hamakua, HI	2/27-3/2/1902
8 days	82.00"	Kukaiiau, Hamakua, HI	2/27-3/6/1902
1 month	148.83"	Mt. Waialeale, Kauai, HI	3/1982
1 month (mainland)	71.54"	Helen Mine, CA	1/1909
1 year	704.83"	Kukui, Kauai, HI	1982
1 year	332.29"	MacLeeod Harbor, AK	1976
1 year (mainland)	204.12"	Laurel Mountain, OR	1996
*constitutes a world record			

Figure 2. Columnar display of US extreme rainfall data from NOAA and tabulated by Richard Burt shows the USA's point rainfall records. Note especially those rainfall records near the Texas Hill Country: D'Hanis, TX, with 2 Hours, and 2 Hours and 45 minutes, also, Thrall, TX, at 18 hours, were set 90 and 104 years ago. These records put the claims of recent alleged "human-caused, CO2-Fueled global warming" as causes of alleged recent increases in record-setting rainfall amounts into the "dust bin of history."

This plots the US extreme record rainfall locations on a map

Note well the record rainfall of 15." in 2 hrs, and 22." in 2.75 hrs on the Balcones Fault Zone just west of San Antonio, TX, in 1935. Also, note the 36.4" in 18 hrs at Thrall, TX, near Austin, in 1921. There is no hint that modern CO2 emissions cause extreme rainfall increases!

The National Academy of Sciences clearly has no idea of what it is talking about!



BS at the National Academies of Science, Engineering and Medicine

Bob Endlich

bendlich@msn.com

16 August 2019

Updated 26 Feb 2020

Now, Used again, in October 2025!



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Academies of*

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ENGINEERING
MEDICINE

CLIMATE AT THE NATIONAL ACADEMIES

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Climate at the National Academies

Climate change is happening today. Scientists have known for some time, from multiple lines of evidence, that humans are changing Earth's climate, primarily through greenhouse gas emissions.

The evidence is clear and compelling. Earth's atmosphere and oceans are warming, the magnitude and frequency of extreme climate and weather events are increasing, and sea level is rising along our coasts.



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Climate at the National Academies

Bob's Comments: Climate Change is ALWAYS occurring; half the time the atmosphere and oceans are... warming, half they're cooling.
Sea Level is a dynamic property of the earth. Sea Level rate of rise has not changed since the 1850s, despite increasing <CO2>

Climate change is happening today. Scientists have known for some time, from multiple lines of evidence, that humans are changing Earth's climate, primarily through greenhouse gas emissions.

The evidence is clear and compelling. Earth's atmosphere and oceans are warming, the magnitude and frequency of extreme climate and weather events are increasing, and sea level is rising along our coasts.





Climate at the National Academies

Climate change is happening today. Scientists have known for some time, from multiple lines of evidence, that humans are changing Earth's climate, primarily through greenhouse gas emissions.

The evidence is clear and compelling. Earth's atmosphere and oceans are warming, the magnitude and frequency of extreme climate and weather events are increasing, and sea level is rising along our coasts.

THIS is how the educated at the NAS explain the false hypothesis of human-caused CO₂-fueled global warming's catastrophe?

It is as if ...climate never warmed before? It's obvious that who wrote this has not read 1997's SCIENCE magazine.

It is a false statement that magnitude and frequency of extreme climate and weather events are increasing.

Sea Level is a dynamic property of Earth. Sea Level was a lot higher in Roman and Medieval Times, with lower <CO₂>. The rate of sea level rise has not changed since the 1850s, before modern increases in <CO₂>

“A Pervasive Millennial-Scale Cycle in North Atlantic Holocene and Glacial Climates”

Gerard Bond, et al, SCIENCE; 14 Nov 1997; 278, 5341; Research Library

“Thousand year” cycles have been known for over 25 years... published in SCIENCE.

and frequently called
...Bond Cycles

It would appear as if the National Academy of Science, Engineering and Medicine is quite unaware of this 1997 publication in SCIENCE Magazine



RESEARCH ARTICLE

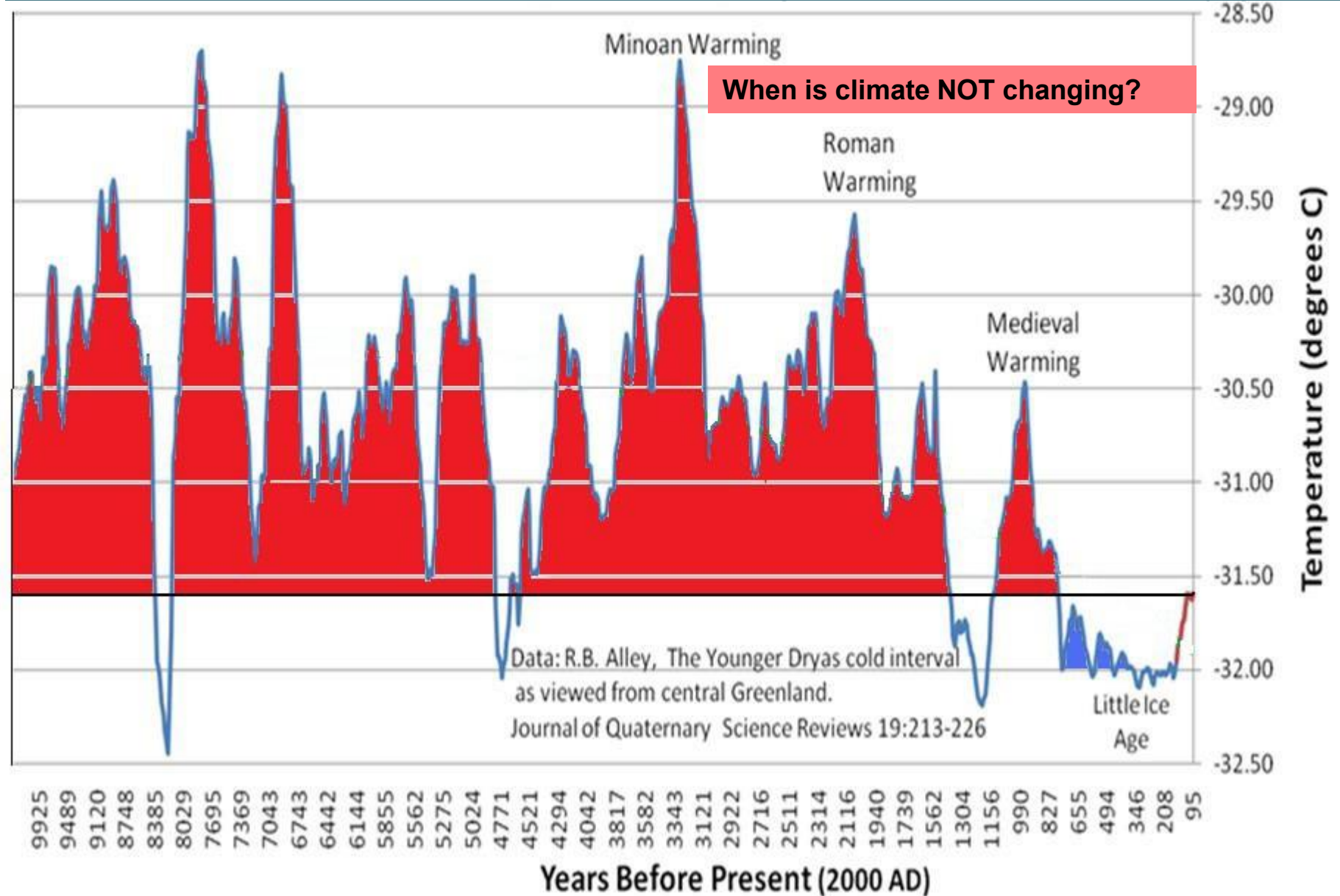
A Pervasive Millennial-Scale Cycle in North Atlantic Holocene and Glacial Climates

Gerard Bond,* William Showers, Maziet Cheseby, Rusty Lotti, Peter Almasi, Peter deMenocal, Paul Priore, Heidi Cullen, Irka Hajdas, Georges Bonani

Evidence from North Atlantic deep sea cores reveals that abrupt shifts punctuated what is conventionally thought to have been a relatively stable Holocene climate. During each of these episodes, cool, ice-bearing waters from north of Iceland were advected as far south as the latitude of Britain. At about the same times, the atmospheric circulation above Greenland changed abruptly. Pacing of the Holocene events and of abrupt climate shifts during the last glaciation are statistically the same; together, they make up a series of climate shifts with a cyclicity close to 1470 ± 500 years. The Holocene events, therefore, appear to be the most recent manifestation of a pervasive millennial-scale climate cycle operating independently of the glacial-interglacial climate state. Amplification of the cycle during the last glaciation may have been linked to the North Atlantic's thermohaline circulation.

Greenland GISP2 Ice Core - Temperature Last 10,000 Years

<http://wattsupwiththat.files.wordpress.com/2013/03/gisp2-ice-core-temperatures.jpg?w=960>



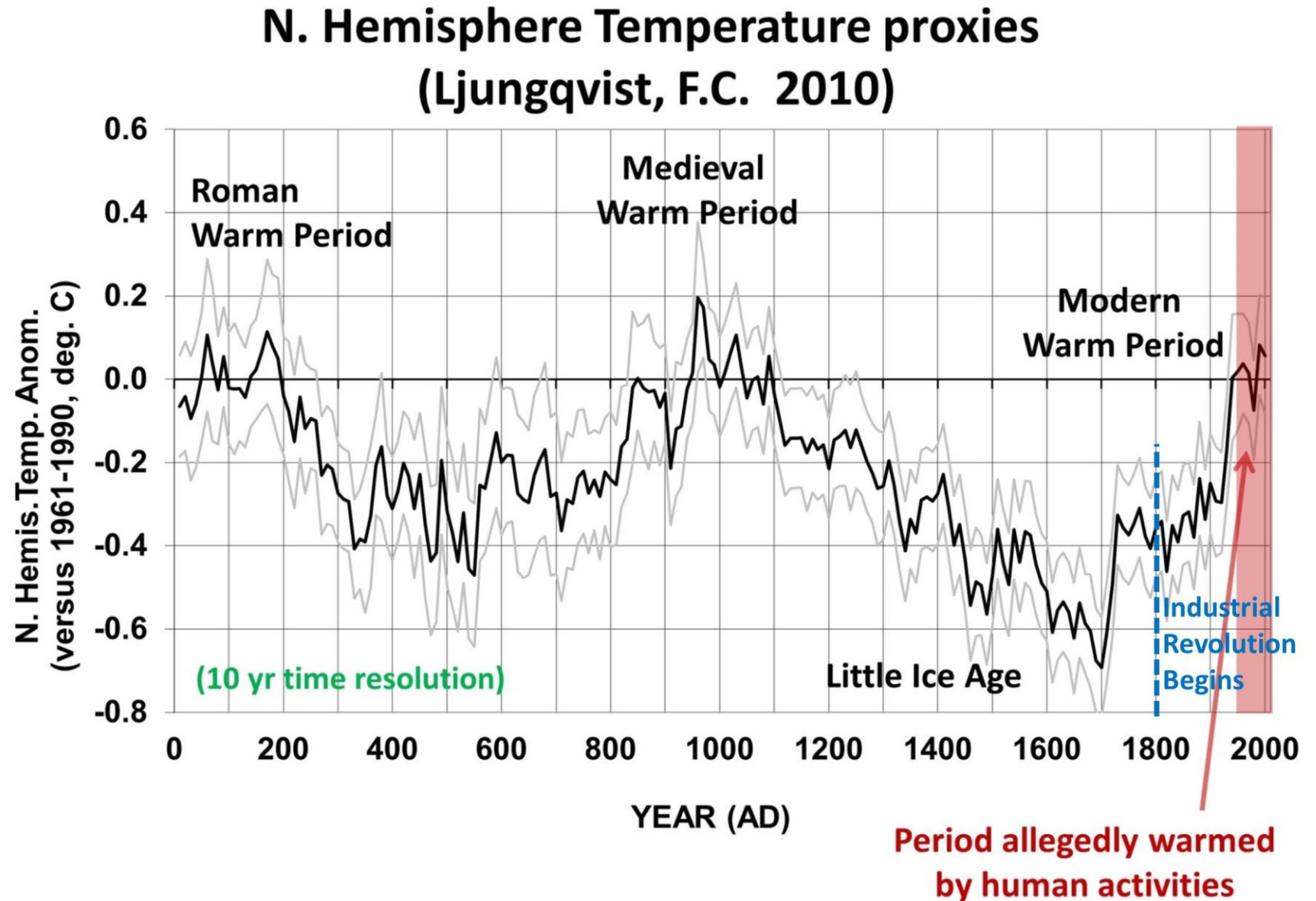
Three years later, in 2000, Richard Alley published on the Younger Dryas, using the GISP2 data from Greenland.

THESE DATA!

It appears as if the National Academy is also quite unaware of these data, which also reveal the ~thousand year "Bond Cycles."

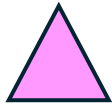
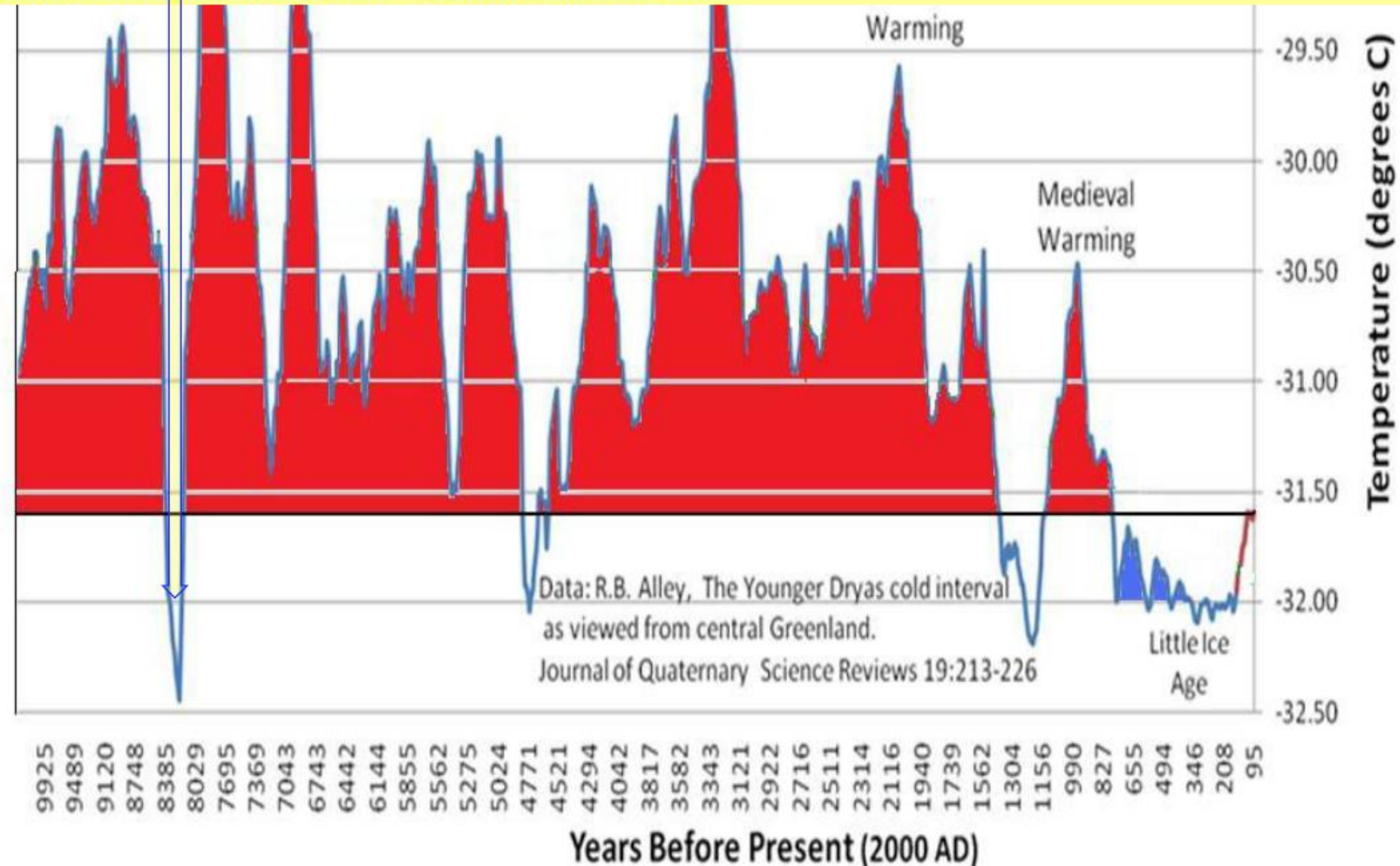
Here is another graphic from a 2010 journal article by F. C. Ljungqvist.

I ask, how can the National Academy be so ignorant of the peer-reviewed literature which shows these pervasive thousand-year temperature cycles, the Bond Cycles?



6181 BC: Sudden cooling kills numerous trees, trunks of which are found by Swiss Geologist Christian Schluchter at the base of the Mont Mine' Glacier, Switzerland, about 5 miles north of the Italian border and 10 miles west of Zermatt.

<http://notrickszone.com/2014/06/09/giant-of-geologyglaciology-christian-schluechter-refutes-co2-feature-interview-throws-climate-science-into-disarray/>

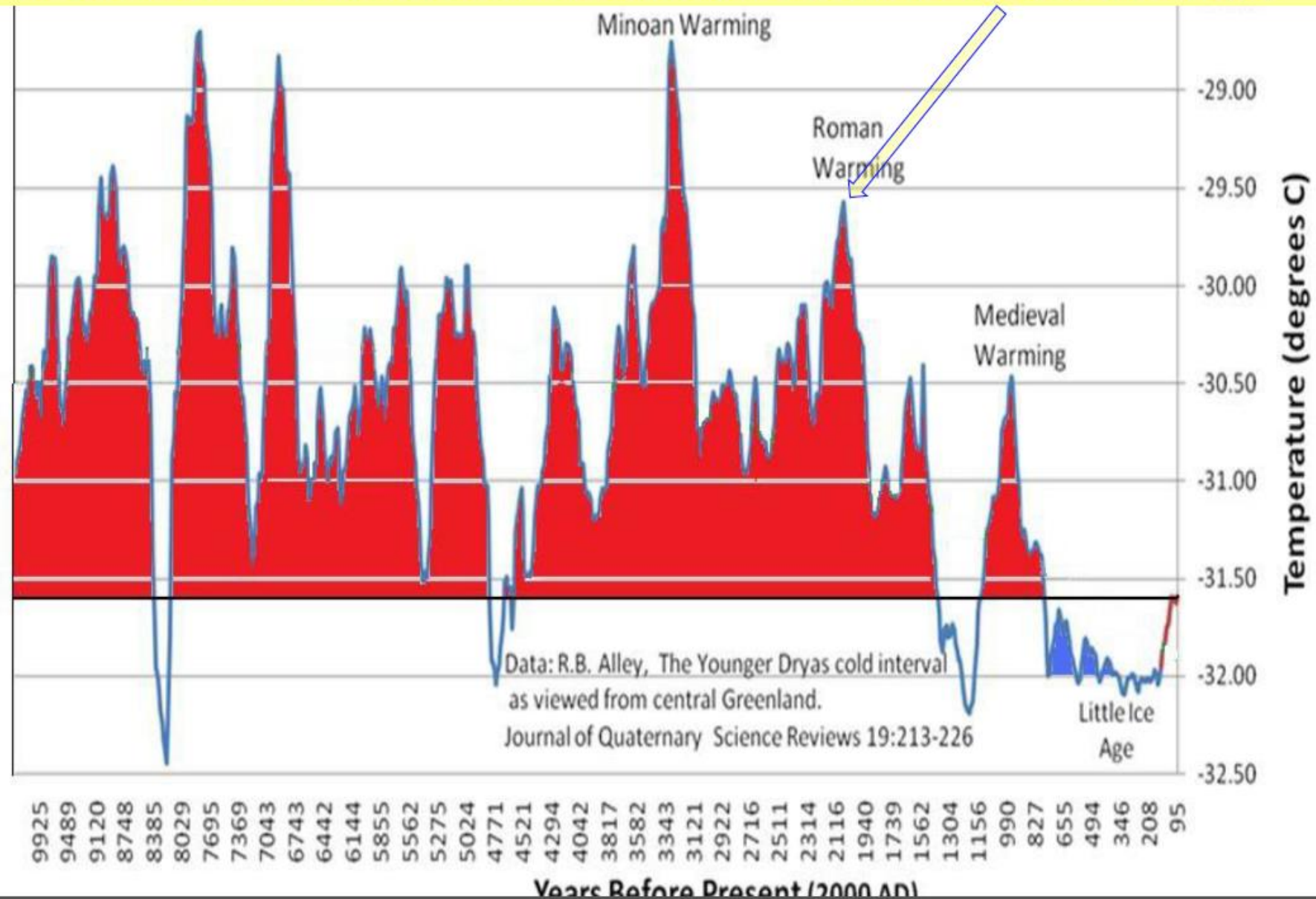




Welcome to Southern SWITZERLAND! The border is between Switzerland and Italy, “Mont Mine” is obviously French and “Unter Gabelhorn” is obviously German.

“the forest line was much higher than it is today; there were hardly any glaciers. Nowhere in the detailed travel accounts from Roman times are glaciers mentioned.”

<http://notrickszone.com/2014/06/09/giant-of-geologyglaciology-christian-schluechter-refutes-co2-feature-interview-throws-climate-science-into-disarray/#sthash.z6pKzqtQ.zWfPF60s.dpuf>



This is slide 190