

Forest Fires

March 2022 - USA

This Climate Short Story goes over the burn history from various places around the world. The story combines plots that I made from readily available data and images that were pulled from other documents/authors.

Bottomline, the general global burn trend is down (as shown by NASA in the last slide (CSS-17g)).

The first few slides focus on the USA, followed by a slide for Canada, then Australia. The last slide shows the European and Global Trends. This slide shows the NIFC government data (both the 1983 to the present cherry-picked data and the earlier, now conveniently unavailable 1926 to 1982 data). CO₂ emissions are not controlling the number of fires or the Acreage Burnt.

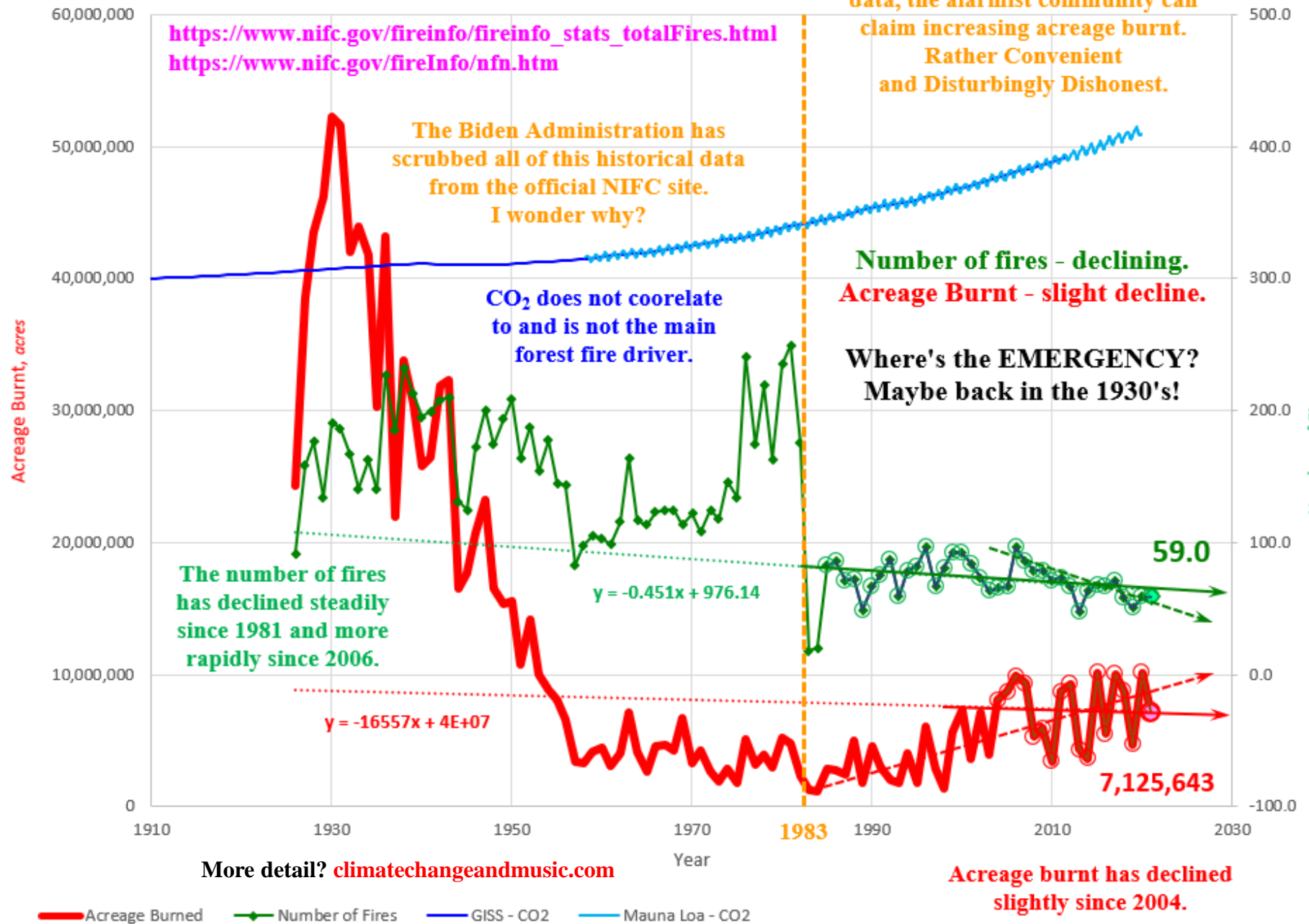
Human activity does have a significant influence on Forest Fires (fire suppression, prescribed burns, fuel build-up, population, intrusion, etc.), with minimal emission contribution. Both the number of fires (since 1985 and accelerating in 2006)

and acreage burnt (slightly since 2004) have been trending down. Atmospheric CO₂ concentrations steadily increased as Acreage Burnt dropped from significantly higher levels (4-5 times higher the current levels) and have been declining since the early 21st century. Hmmm..... Maybe, just maybe the pre-1960 fire situation was worse than our current (or future) "emergency". Time to WAKE UP!

Forest Fires USA

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Historical Fire Activity - USA



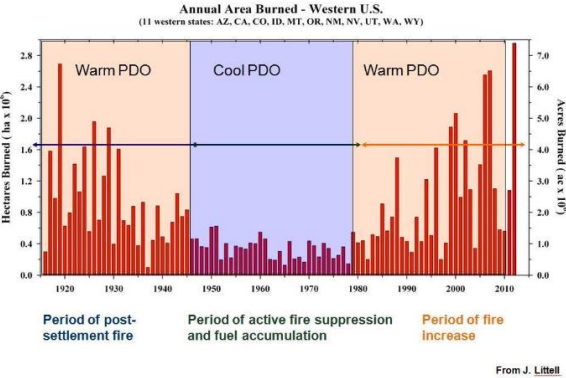
GSM - Grand Solar Minimum. The real "Climate Change" existential threat is right around the corner. Do the Research!

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Forest Fires

March 2022 - California

Area burned in 11 Western states, 1916-2012



California is the major source for "Climate Change" fear porn in the USA. The fires are real and they are tragic, but they do not correlate to CO₂ emissions. The last two years have been especially bad. Human factors definitely play a role here (not the least of which is the 94.6% of fires that are started by humans).

Forest Fires California

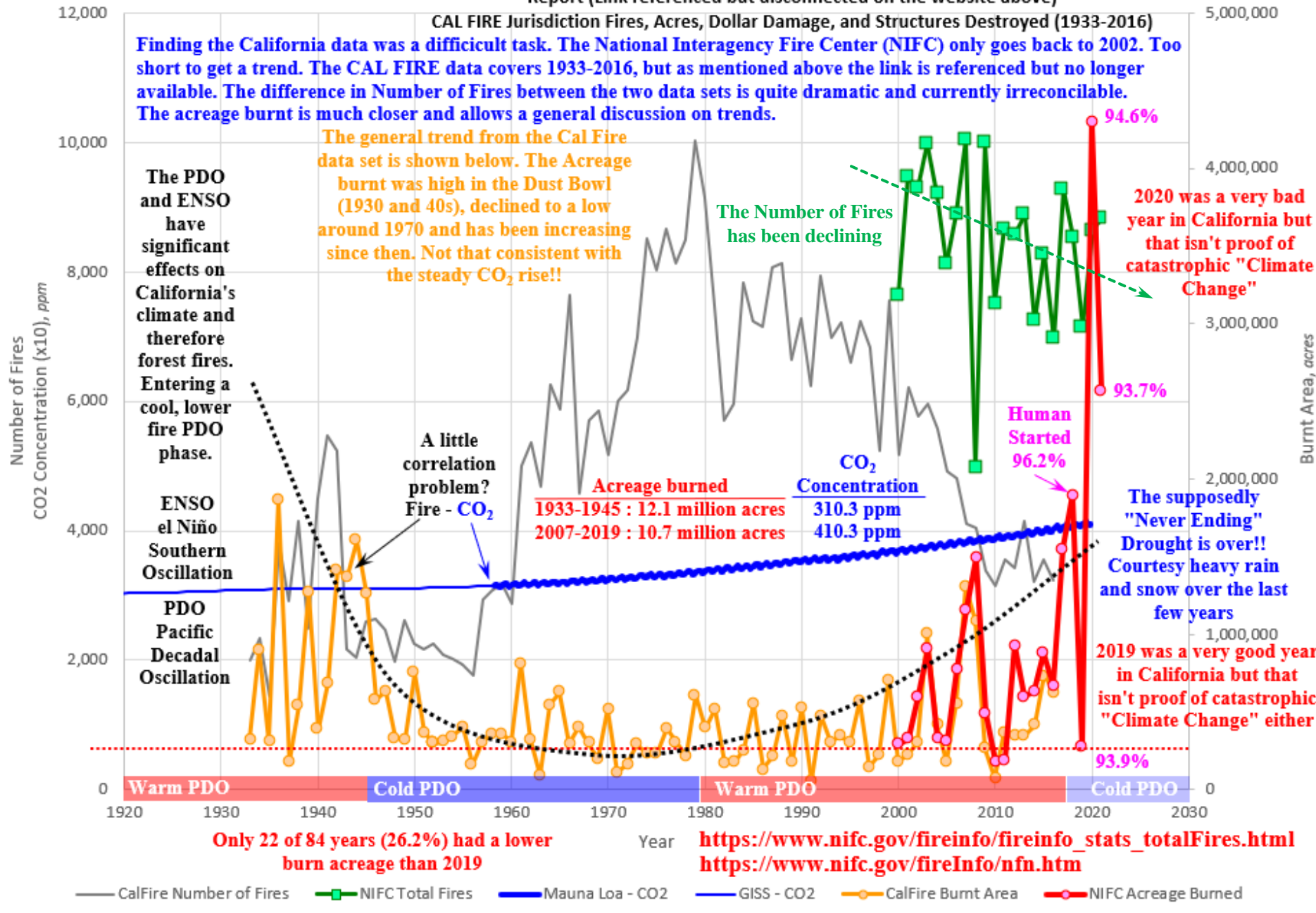
Many studies have pointed to the Pacific Decadal Oscillation (PDO) and the el Niño

Southern Oscillation (ENSO) influence. Only the PDO is shown here. The California data is subject to the same culling experienced by the overall USA data. And as shown in the previous slide, the increasing acreage burnt in California is not reflected in the overall USA data. A perfect example of the alarmist habit of focussing on a specific area or event to push their Climate fear porn. California does have a fire problem but that is not reflected in the global situation.

More detail? climatechangeandmusic.com

California Wild Fires

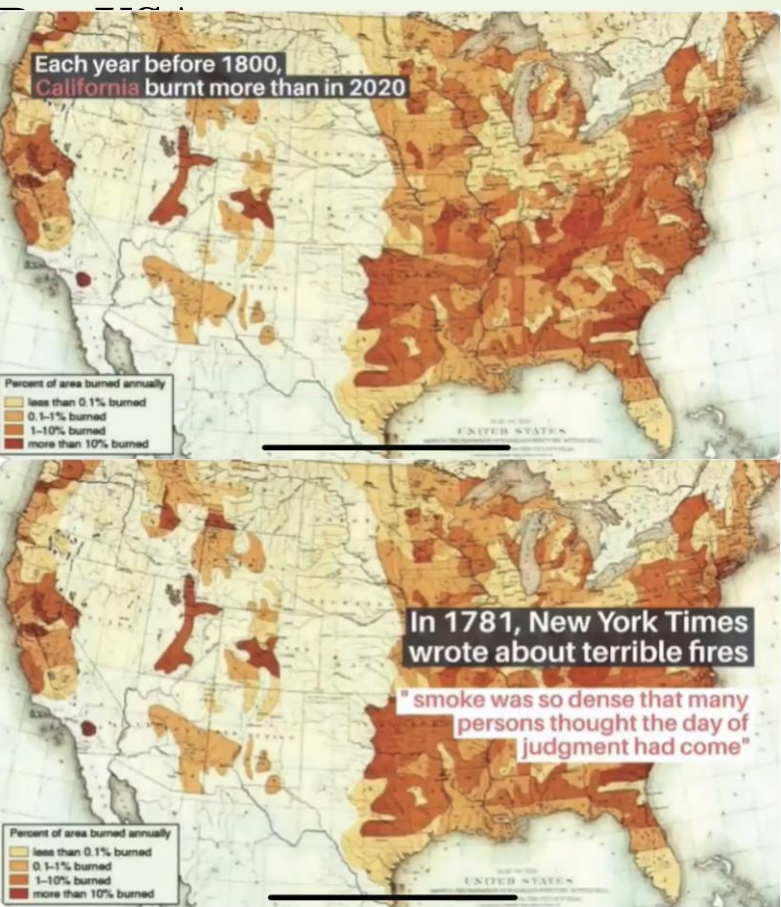
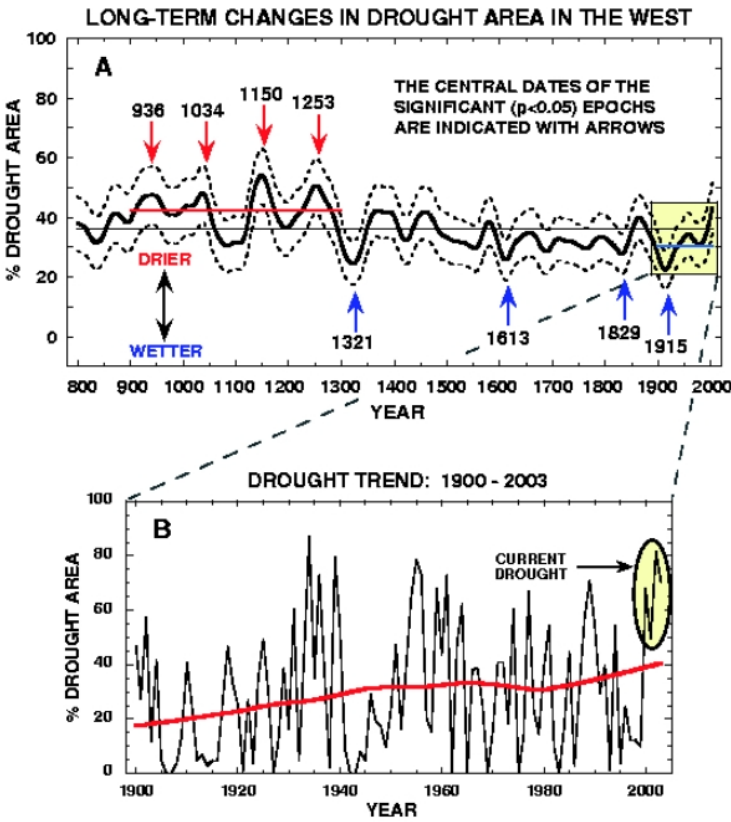
<https://www.fire.ca.gov/stats-events/>
Report (Link referenced but disconnected on the website above)



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The characteristics and likely causes of the Medieval megadroughts in North America (columbia.edu)

CSS-17d Forest Fires - March 2022 -



1995 FEDERAL WILDLAND FIRE MANAGEMENT POLICY

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Searches for this report were unsuccessful. There are plenty of references (70,700 on Bing) to reviews and updates of the report.

JANUARY 2001

- U.S. DEPARTMENT OF THE INTERIOR
 - Bureau of Land Management
 - National Park Service
 - U.S. Fish and Wildlife Service
 - Bureau of Indian Affairs
 - Geological Survey
 - Bureau of Reclamation
- DEPARTMENT OF COMMERCE
 - National Oceanic and Atmospheric Administration/National Weather Service
- U.S. ENVIRONMENTAL PROTECTION AGENCY
- FEDERAL EMERGENCY MANAGEMENT AGENCY
- NATIONAL ASSOCIATION OF STATE FORESTERS
- U.S. DEPARTMENT OF AGRICULTURE
 - U.S. Forest Service
- DEPARTMENT OF ENERGY
- DEPARTMENT OF DEFENSE

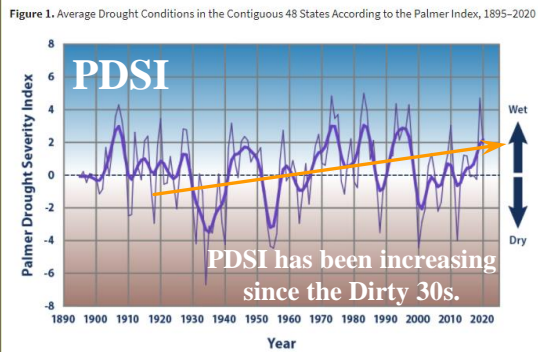


IMPORTANT FIRE MANAGEMENT ISSUES

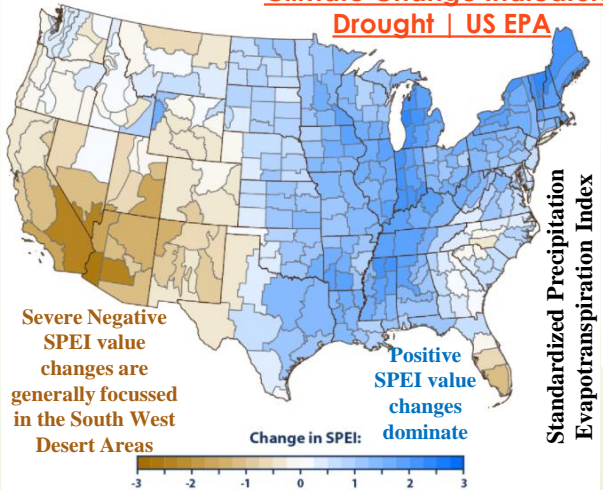
Why is this report no longer available?

Forest Fires Pre-USA

Droughts and Forest Fires are not a new phenomenon in the USA west. Mega-Droughts (above) were decades in length not the few years that have been typical through our lifetimes and Forest Fires were burning roughly 145 million acres annually prior to the 20th century. The 2021 burnt acreage was 7.1 million acres (5% of historical norms and 15% less than the early 20th century levels). The minor climate changes we are experiencing are insignificant compared to the real climate change the early settlers to North America faced (indigenous or otherwise). **NOT an EMERGENCY!**



Climate Change Indicators: Drought | US EPA



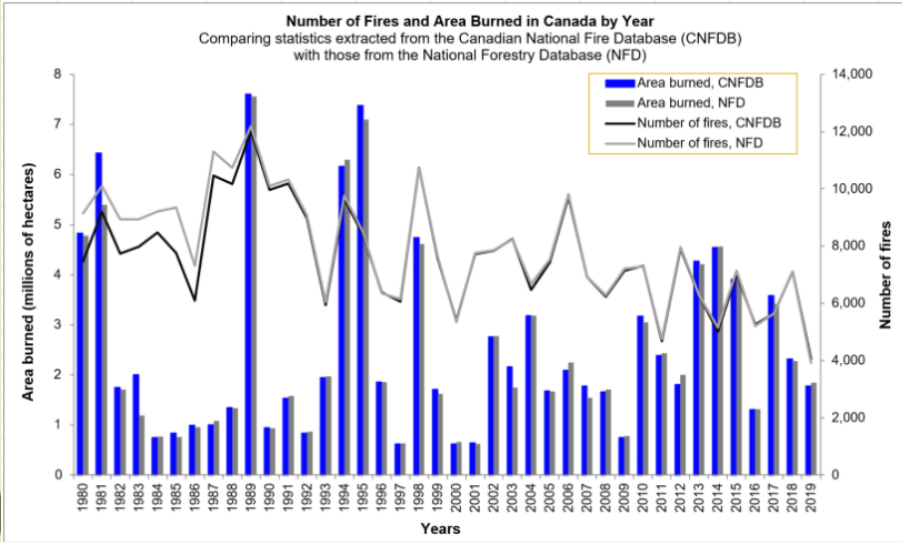
HISTORICAL CONTEXT

Historically, fire has been a frequent and major ecological factor in North America. In the conterminous United States during the preindustrial period (1500-1800), an average of 145 million acres burned annually. Today only 14 million acres (federal and non-federal) are burned annually by wildland fire from all ignition sources. Land use changes such as agriculture and urbanization are responsible for 50 percent of this 10-fold decrease. Land management actions including land fragmentation and fire suppression are responsible for the remaining 50 percent. This decrease in wildland fire has been a destabilizing influence in many fire-adapted ecosystems such as ponderosa pine, lodgepole pine, pinyon/juniper woodlands, southern pinelands, whitebark pine, oak savanna, pitch pine, aspen, and

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Forest Fires - March 2022 – Canada

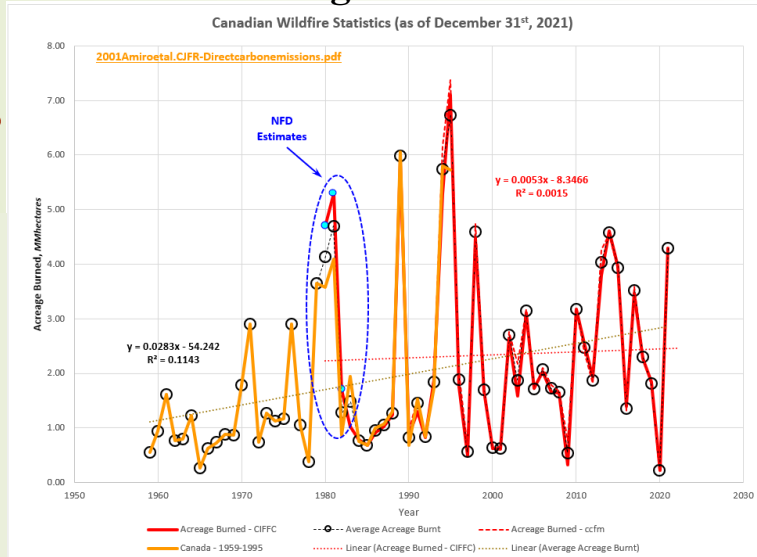


<https://cwfis.cfs.nrcan.gc.ca/ha/nfdb>

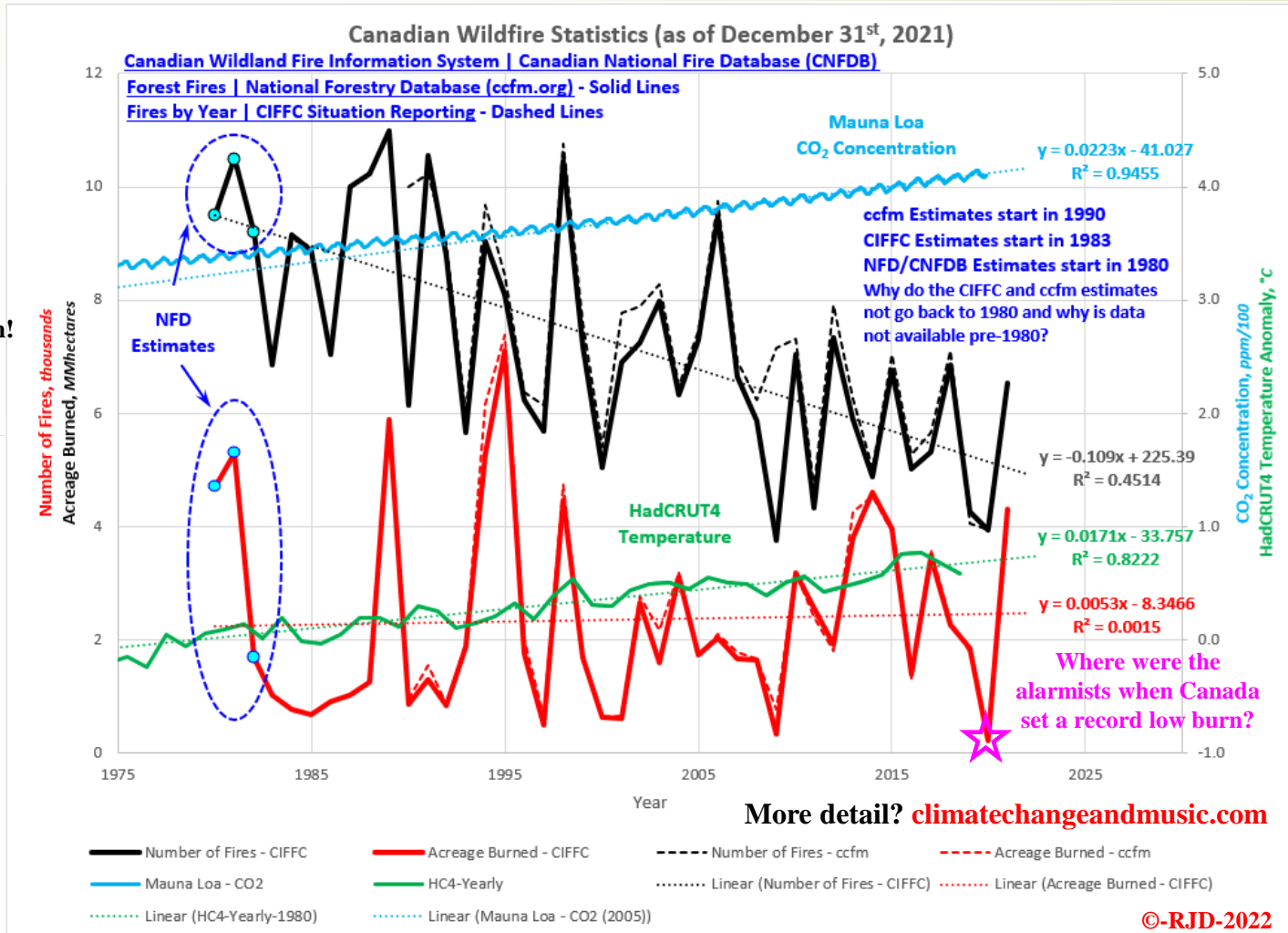
The Canadian Government Fire Statistics cover the 1980 – 2019 Period and do not indicate that rising CO₂ is leading to more or bigger forest fires. The opposite is the truth!

Are the Improved/Flat Fire Statistics due to “Climate Change”?

Note
Just over 50% of Canadian fires are human caused.



The Canadian government data does not go back as far as the US data. The Canadian National Fire Database (CNFDB) had the longest history going back to 1980. You would think that we had fires prior to 1980 (sarcasm). And of course, we do. Our governments just do not make the data easy to find. I was able to find a paper (Flannigan et al., 2001) that had data covering 1959 to 1995. That data was plotted with the CIFFC, ccfm and CNFDB data to see how the various curves compared. The 1959 – 1995 data was a little different than the comparable data. I am not sure why the Canadian Government does not include these numbers in their official records. Ultimately, the datasets I was able to find are not a representative climate period. As shown in the first slide, USA burnt acreage was also low in the late 1950s and has generally risen since then. Canada was also subject to the same problems the USA faced during the Dirty Thirties. I do not have the numbers, but I suspect that the high burn acreage present in the USA pre-1959 was also present in Canada. Here’s a few examples of large fires that were not included in this dataset. Miramichi (1825), Saguenay (1870), Black Tuesday (1911), Matheson (1916), The Great Fire (1919, 2.0 MMhectares), Haileybury (1922) and the Chinchaga (1950, the largest recorded single fire in North American history, 1.4 to 1.7 MMhectares)



Forest Fires Canada

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Forest Fires Australia

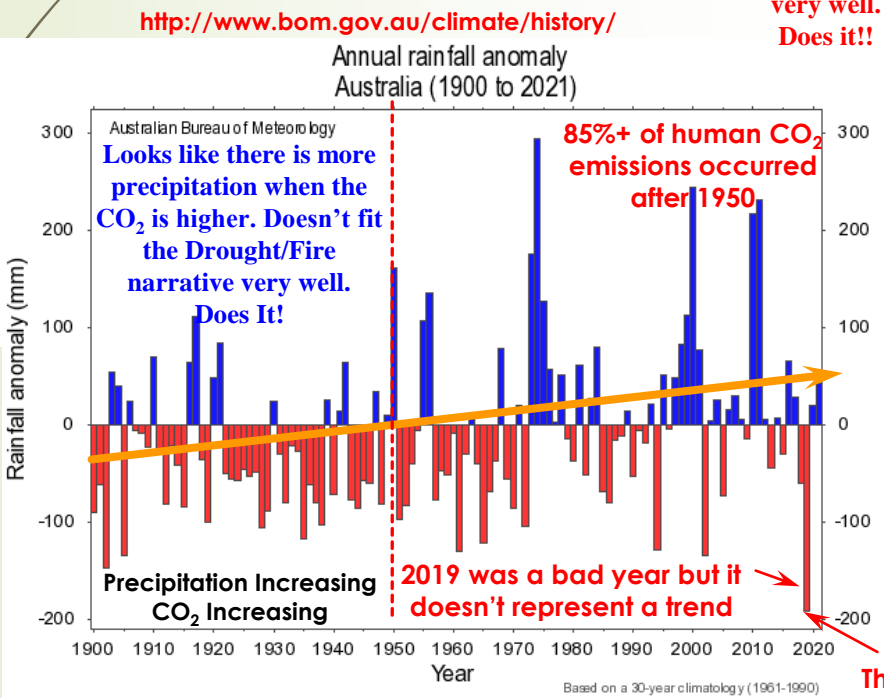
Precipitation has been increasing significantly since the beginning of the 20th century. 2019 appears to have set a low precipitation record, but one year makes very little difference when it comes to the overall trend. The last two years have had above normal rainfall.



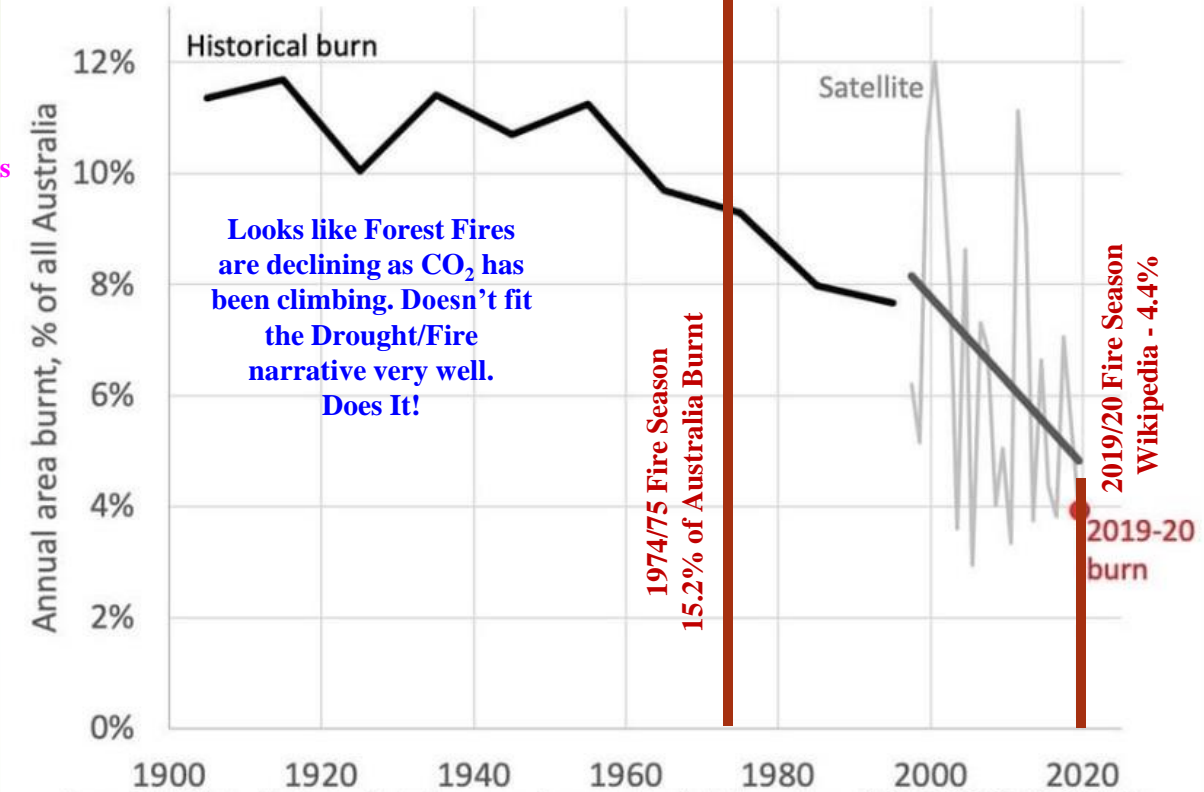
CSS-17f Forest Fires March 2022 Australia

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1974/75 was a REALLY bad year!! 15% of Australia burned in 1974, a record year of precipitation. Does not fit the Drought/Fire narrative very well. Does it!!



Australia used to burn much more: 2019-20 burnt area one of lowest since 1900



Australia searches were almost useless (so I focused on the few sources that were credible and/or had corroborating sources). The 2019/20 Australian Fire Season produced a continuous "Climate Change" diatribe. Despite the tragic nature of the fires, the acreage burnt was not unprecedented (even in modern times). 1974/75 was not that long ago in climate terms. Australia also had some horrific temperatures, droughts and fires prior to 1900 that are not included in this analysis. The more recent, much quieter 2020/21 and 2021/22 fire seasons must have been uneventful given that the news feed has been relatively devoid of the traditional "Climate Change" fear porn that followed the 2019/20 fire season. CO₂ does not appear to be driving the forest fires or drought in Australia.

That drought did not last long?

More detail? climatechangeandmusic.com

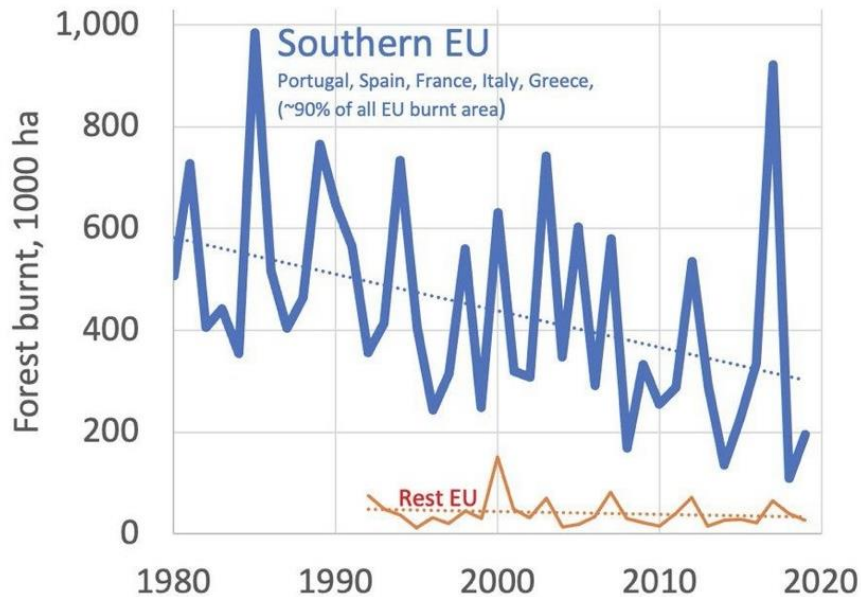
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CSS-17g Forest Fires - March 2022 - Global

More detail? climatechangeandmusic.com ©-RJD-2022

The Eurasian land mass has a few small areas of both positive and negative trends. Overall, they appear to cancel one another out.

EU Forests Burn Less

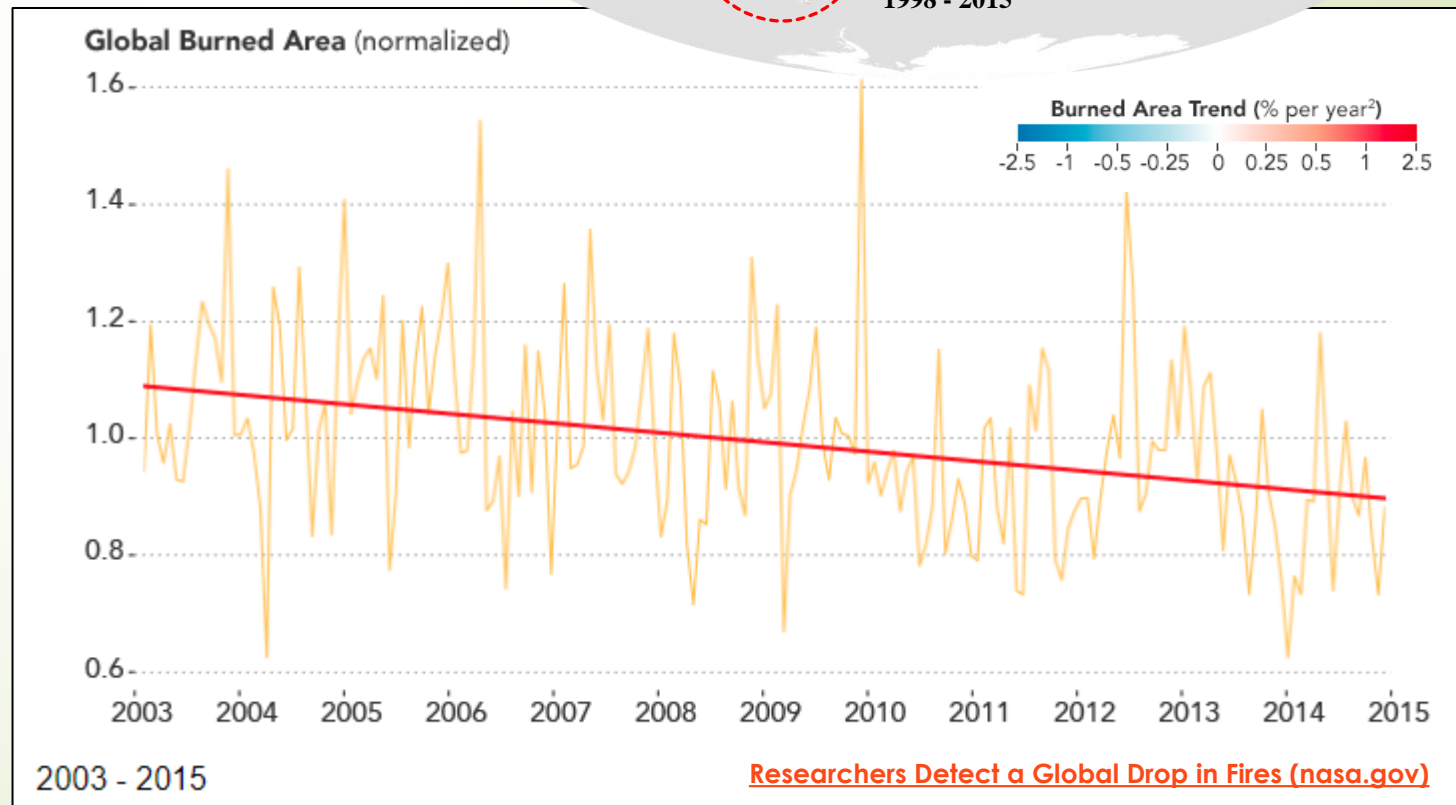
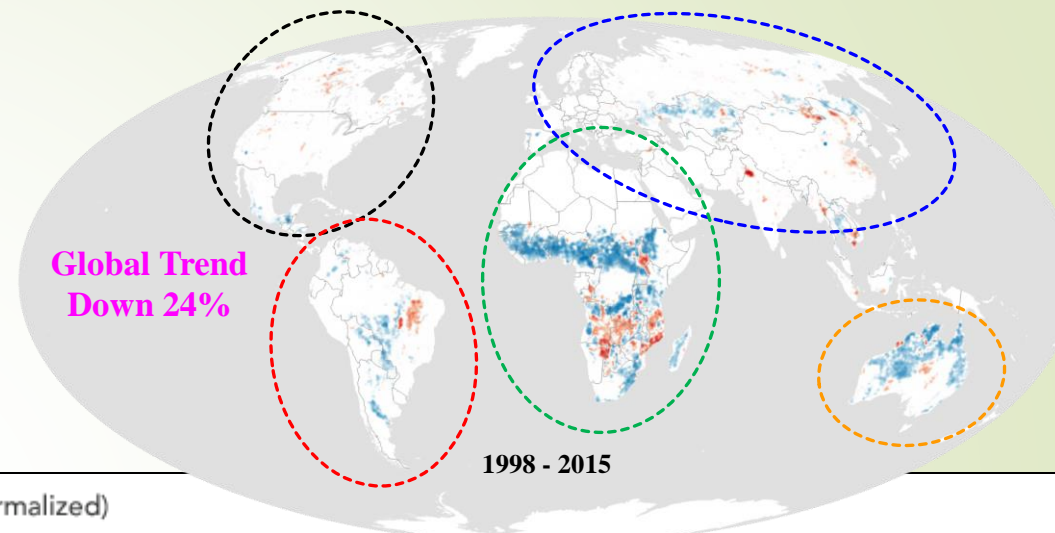


North American Burned Area has some small areas that show a minor upward trend. Overall, not much change but consistent with the data presented earlier.

In South America, the negative trends appear to be more widespread than the positive trends. Burned areas have decreased over the 1998-2015 period.

African negative trends dominate the positive trends on this continent. Burned areas have decreased significantly over the 1998-2015 period.

Australian negative trends also dominate the positive trends on this continent. Burned areas have decreased significantly over the 1998-2015 period.



https://ec.europa.eu/jrc/en/publication/forest-fires-europe-middle-east-and-north-africa-2019_p157_159, with least square trend-lines, both trendlines are declining, but Rest EU not significantly. EU forested area since 1990 has increased from 36.3% to 39.6%
<https://data.worldbank.org/indicator/AG.LND.FRST.ZS?locations=EU>; twitter.com/bjornlomborg

The European data (above) is also showing steady declines in burnt acreage since 1980. Is there data pre-1980? Of course, but that data does not appear to be easily accessible or consolidated. The map and plot to the right finalize the global picture. The Global Burned Area (normalized) has been declining steadily since 2003 based on the NASA study completed in 2017. The qualitative look at the world map extends that decline back to 1998 (down 24% over that period). This is a short time period, but the trend is down and the CO₂ trend is up. CO₂ is not driving the trends in burn acreage. Will the trend continue down to the present? Most likely since the temperatures have declined significantly from the peak temperatures measured in late 2015/16. The February 2022 UAH Lower Troposphere Temperature Anomaly was back down to the 1991 to 2020 base (0.0 °C). Temperature Anomalies have dropped 0.74 °C since the February 2016 peak.

Forest Fires Global

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Researchers Detect a Global Drop in Fires (nasa.gov)