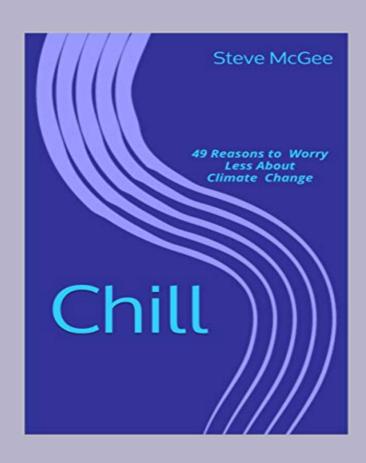
Lessons, Updates & Observations

Steve McGee July 17, 2021

Lessons, Updates & Observations

- Lessons learned from authoring experience
- Updates to worry less about climate change
- Observations of 2021 Pacific NW heatwave

Lessons Learned From Authoring:



Authoring Lessons Learned –

- Worthy experience I would do it again
- Provided a focal point to ideas
- Creatively more difficult than expected
- Proposals, reports and technical papers collaborative
- More time consuming than expected
- Particularly references, editing, reading & re-reading

Lessons – Empowering Tools

- Self publishing easier than ever
- I Chose to use Amazon, though many options are available (e.g. Barnes and Noble)
- Printed copies are 'printed on demand'
- Ebook is easy to maintain and update

Lessons - Formats

- Formats for print and ebook are different!
- Wrote ebook in HTML format
- Converted HTML to '.epub' format for ebook using 'Calibre' ebook-convert in Linux
- Pasted HTML into LibreOffice and edited to create PDF
- Updates requires editing both documents not ideal
- Windows or Mac based tools may be easier to use

Lessons - Formats

- Consider whether to write ebook, print, or both
- Print is old school, but tangible and gratifying to hold in one's hands
- Ebook is fluid, is less expensive to customers, but multiple platforms mean that the resulting document will format differently on different screens

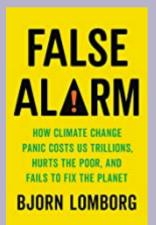
Lessons - Graphics

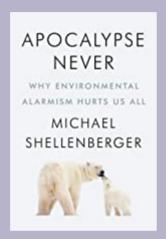
- Graphics add a lot of size to digital documents
- Amazon charges above a certain file size
- Color graphics are expensive to print
- Amazon pricing must exceed the printing expense

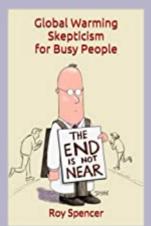
Lessons – Climate Change Specific

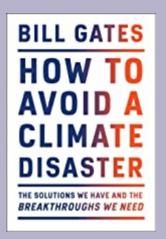
The
Uninhabitable
Earth
Life After Warming
David
Wallace-Wells



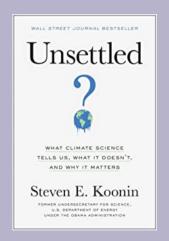


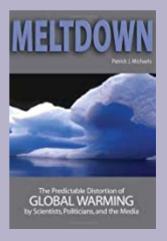












Lessons – Climate Change Specific

- Pat Michaels' <u>Meltdown</u> Editor: "no equations"
- What about charts & graphs?
- Steve Koonin's <u>Unsettled</u> contains numerous charts & graphs – to the exclusion of would be readers?
- Targeting a climate change reader is difficult
- Wide range of technical backgrounds
- Appealing to one reader may bore or exclude another

Lessons – Preconceived POV

- The book includes sections on bias
- All books would seem to imply a thesis which may be vulnerable to confirmation bias
- I've taken some inspiration from the following:

Lessons – Preconceived POV

- "About thirty years ago there was much talk that geologists ought only to observe and not theorise; and I well remember some one saying that at this rate a man might as well go into a gravel-pit and count the pebbles and describe the colours. How odd it is that anyone should not see that all observation must be for or against some view if it is to be of any service!"
 - Charles Darwin letter to a friend

Lessons – Sales Expectations

- I had read that most self published books sell fewer than one hundred copies
- I knew that climate change books further meant limited sales
- Still short of one hundred copies sold

Lessons – Marketing

- I've not done an energetic job of promotion
- Authors advised to use social media, public talks, video productions, interviews
- Amazon advertising seems effective
- Cost of ads exceeds the sales revenue

Advice (FWIW)

- Consider your topic and the typical reader you wish to reach
- Read books on similar topics
- Visit Amazon and Barnes & Noble self publishing pages
- Schedule a writing time for everyday
- Decide whether to write for print, ebook, or both
- Someone to be 'editor' is helpful, though not critical
- Read about copyrights, attribution, 'fair use', plagarism and slander
- Data and content produced by the US government are generally safe to copy
- Submit drafts to others for comments and corrections
- Once published, be prepared to promote

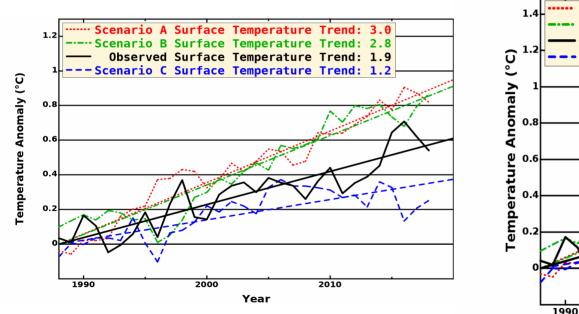
Some Useful Links

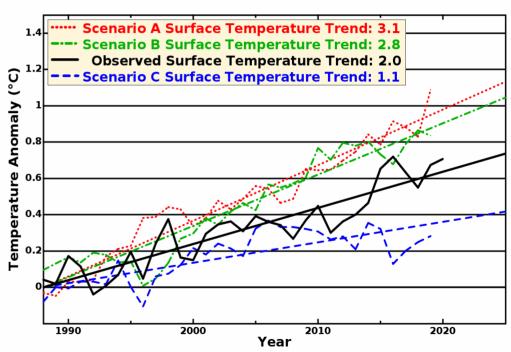
- https://kdp.amazon.com/en_US/
- https://press.barnesandnoble.com/
- https://self-publishingschool.com/how-to-publish-a-book/
- chicagomanualofstyle.org
- https://www.iuniverse.com/en/resources/publishing/avoiding-legal-trouble-a-checklist-for-authors
- https://www.janefriedman.com/5-things-nonfiction-authors-can-get-sued/
- https://fairuse.stanford.edu/overview/introduction/getting-permission/
- https://lifehacker.com/the-best-ways-to-be-sure-youre-legally-using-online-pho-5992419

Updates of Data Cited in Chill

- Some Reasons to Worry Less are static
- Others are continually observed
- Book updates will follow with latest data
- Including...

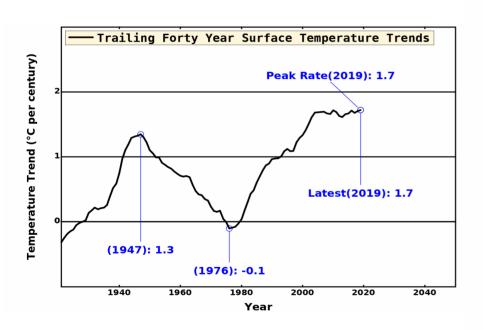
Warming Less Than Expected

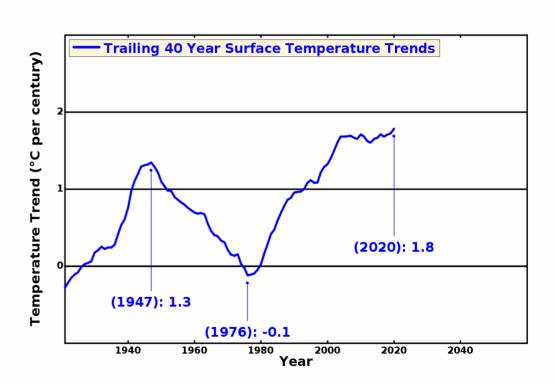




NASA GISS scenarios from 1988 testimony, NOAA surface temperature observations

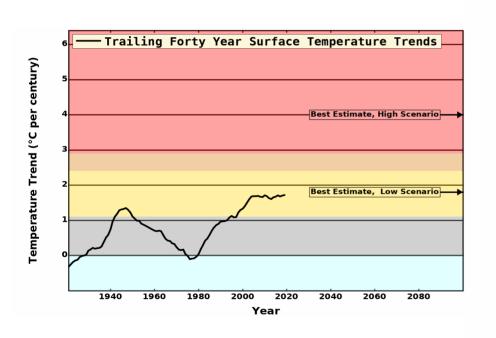
Warming Not Accelerating?

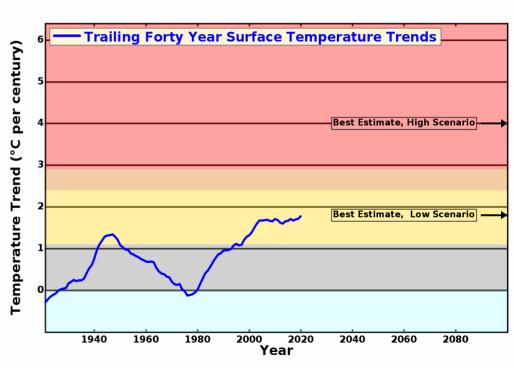




NOAA surface temperature observations

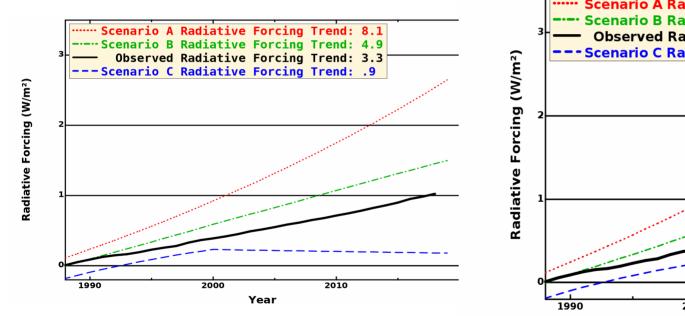
Warming At A Low Scenario

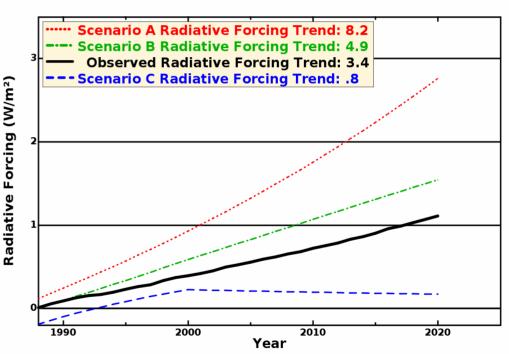




NOAA surface temperature observations, IPCC AR4 scenario best estimates

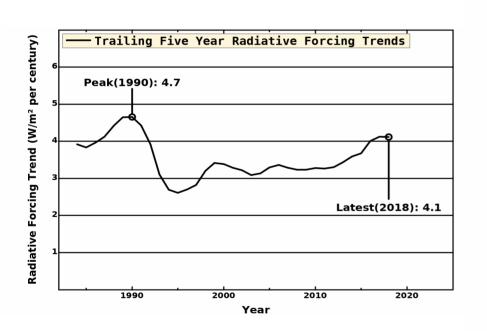
Forcing Rates Less Than Expected

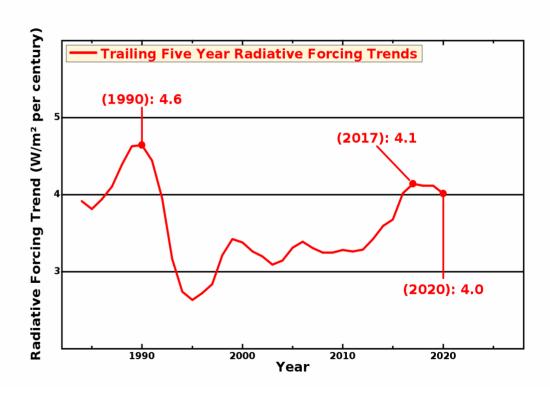




NASA GISS radiative forcing scenarios from 1988 testimony

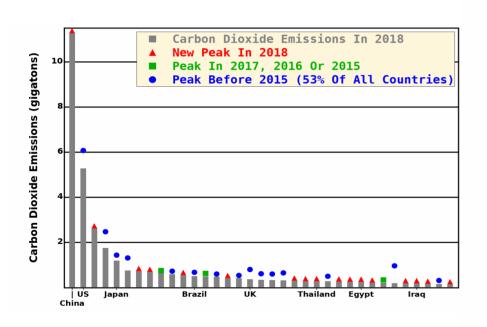
Radiative Forcing Rates Decreasing

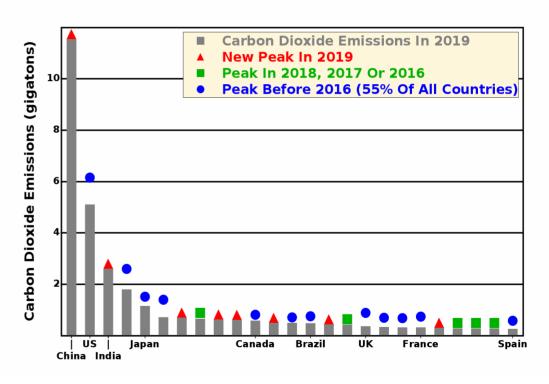




NOAA Accumulated Greenhouse Gas Index (AGGI)

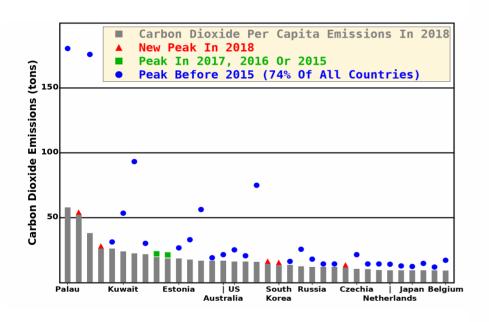
Countries Past Peak CO2

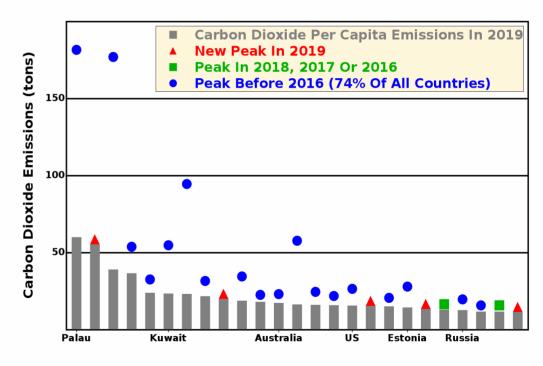




CO2 emissions from the Emissions Database for Global Atmospheric Research (EDGAR), Publications Office of the European Union

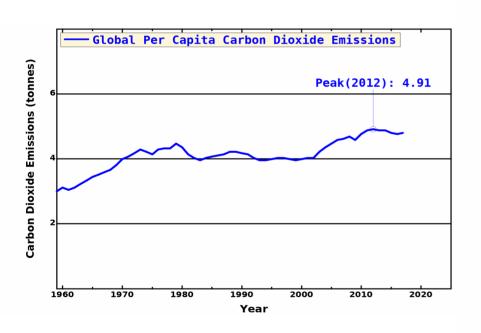
Countries Past Peak PerCapita CO2

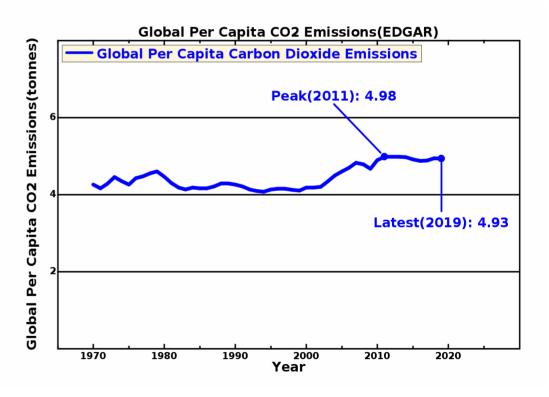




CO2 per capita emissions from the Emissions Database for Global Atmospheric Research (EDGAR), Publications Office of the European Union

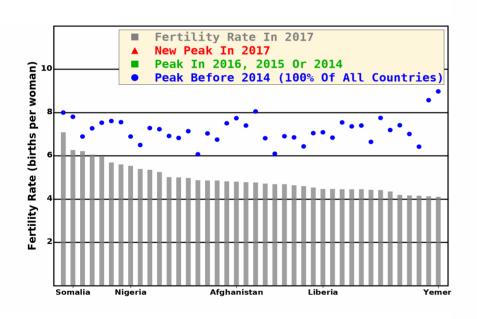
Global PerCapita CO2 Past Peak

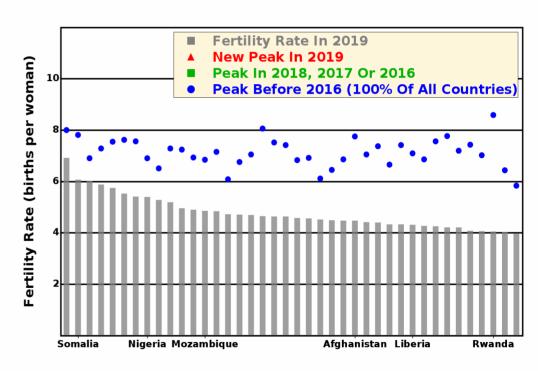




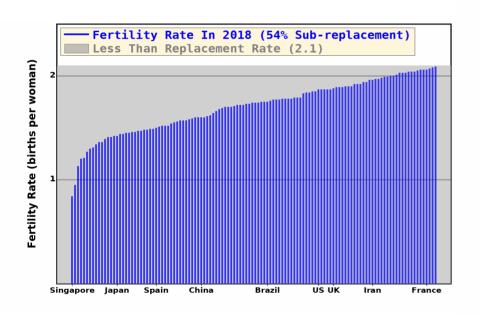
CO2 global per capita emissions from the Emissions Database for Global Atmospheric Research (EDGAR), Publications Office of the European Union

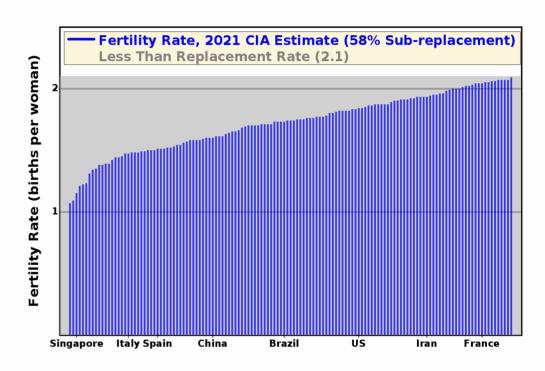
Fertility Falling In All Countries



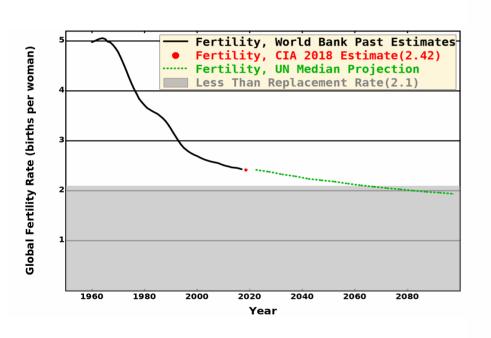


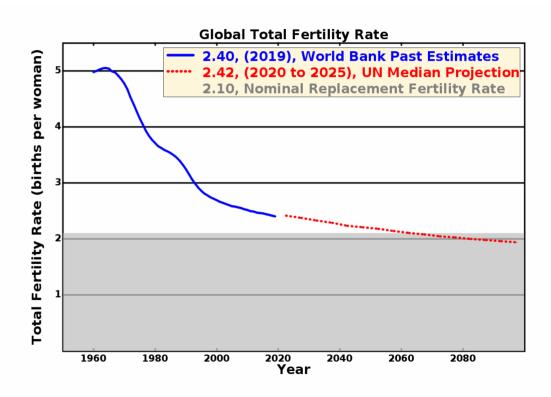
Sub-Replacement Fertility Countries





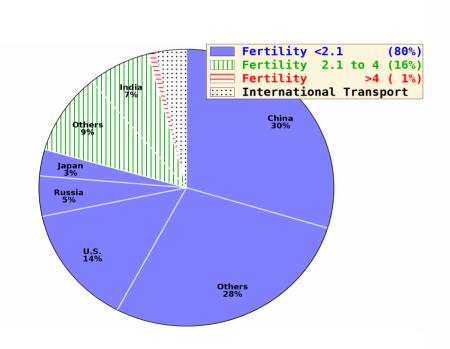
Global Fertility Less Than Expected

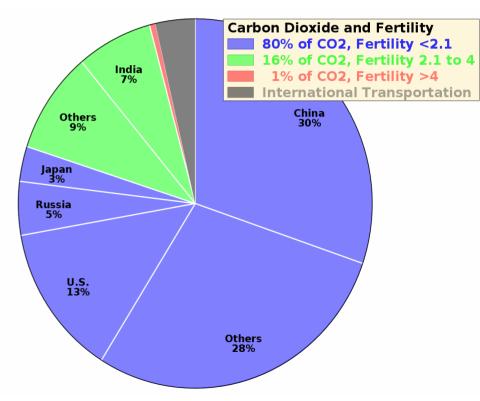




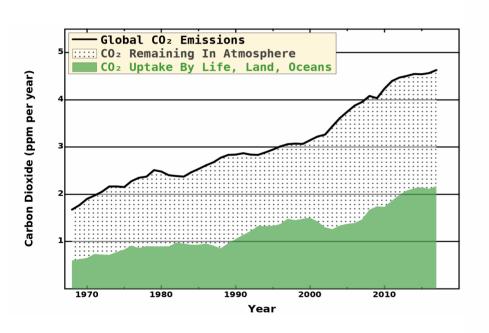
Trend of global total fertility rate from the World Bank and future estimates from the United Nations Department of Economic and Social Affairs, Population Division

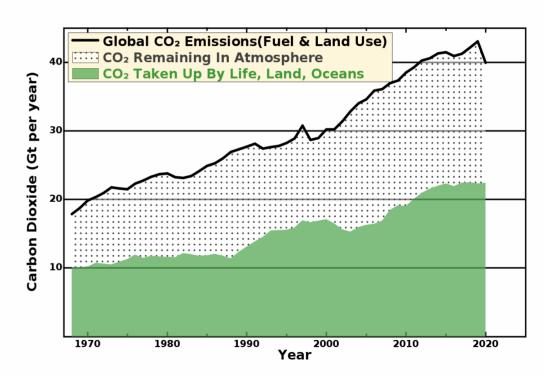
CO2 From Low Fertility Countries



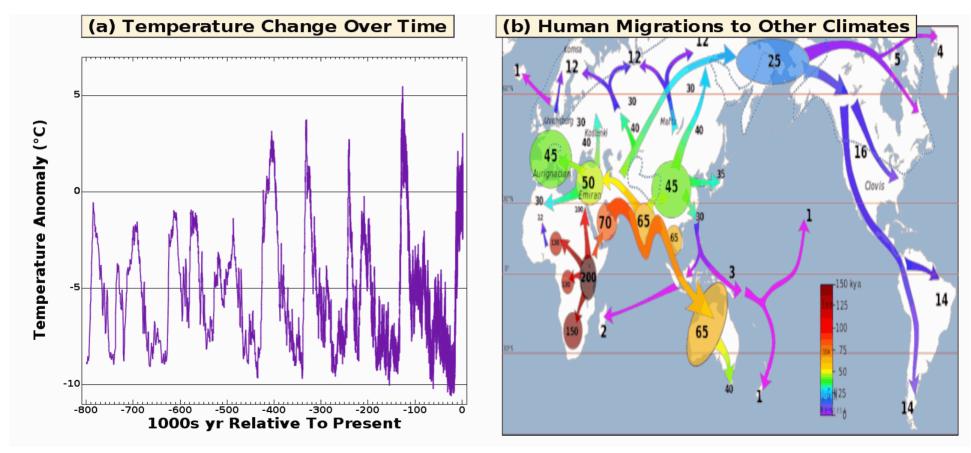


CO2 Uptake Has Increased

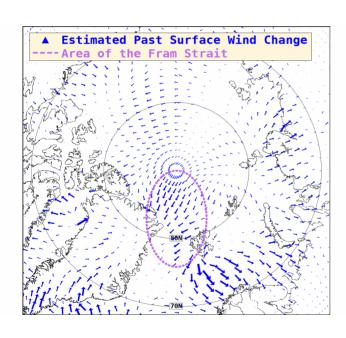


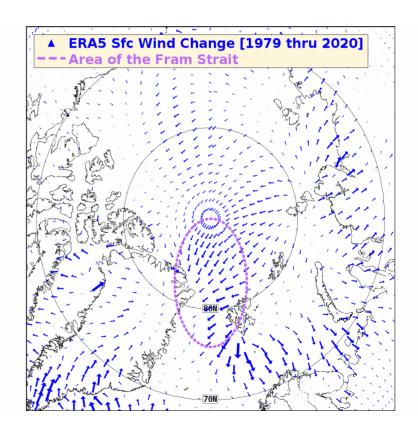


Life Evolved For Climate Change

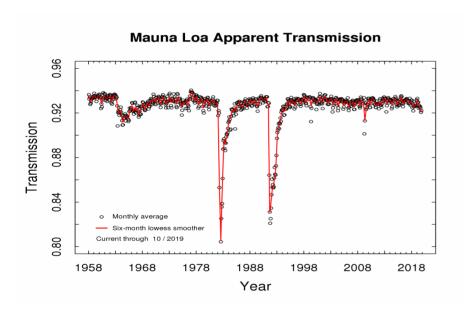


Some Arctic Ice Loss From Wind

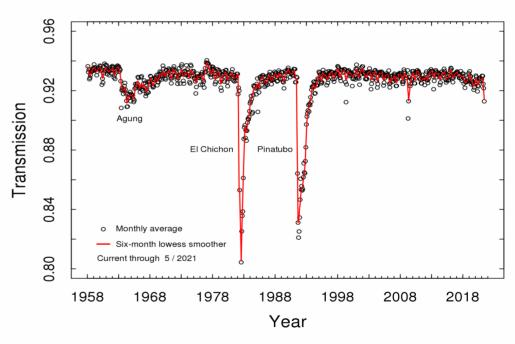




Warming From Volcanic Timing

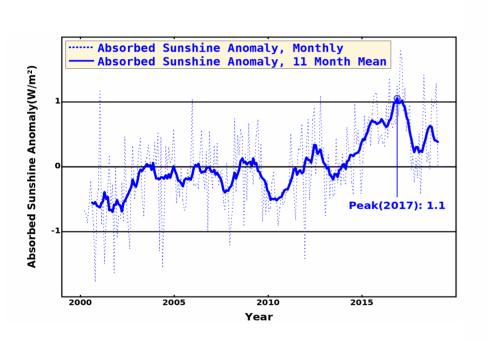


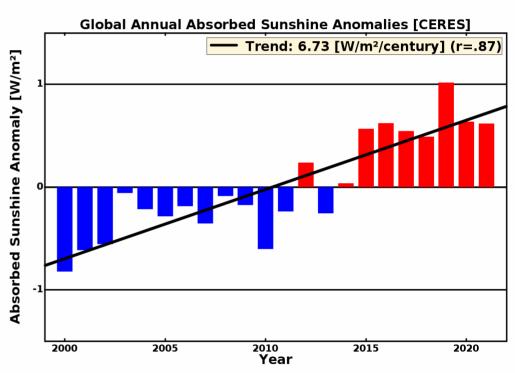
Mauna Loa Apparent Transmission



NOAA Mauna Loa Clear Sky Observations

Warming From Absorbed Sunshine



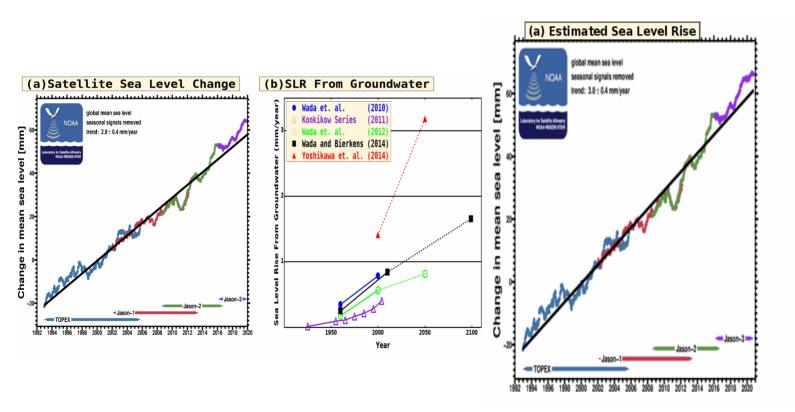


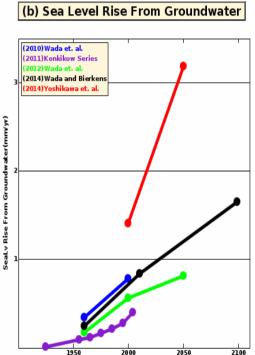
NASA, (Earth Observing System, Langley Research Center), "Clouds and the Earth's Radiant Energy System (CERES)

Anomalous outgoing shortwave radiance subtracted from anomalous global incoming shortwave radiance.

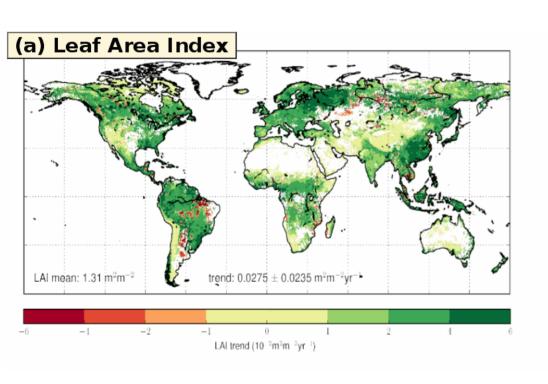
Year 2000 (Anomalies March through December), Year 2021(Anomalies January through April)

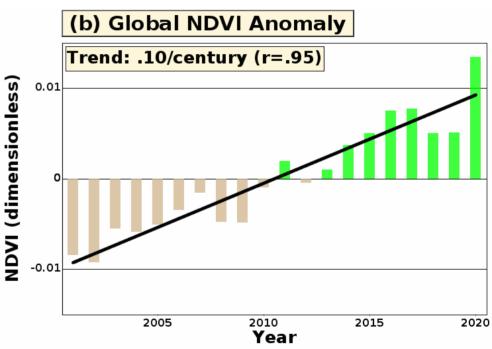
Sea Level Rise From Groundwater



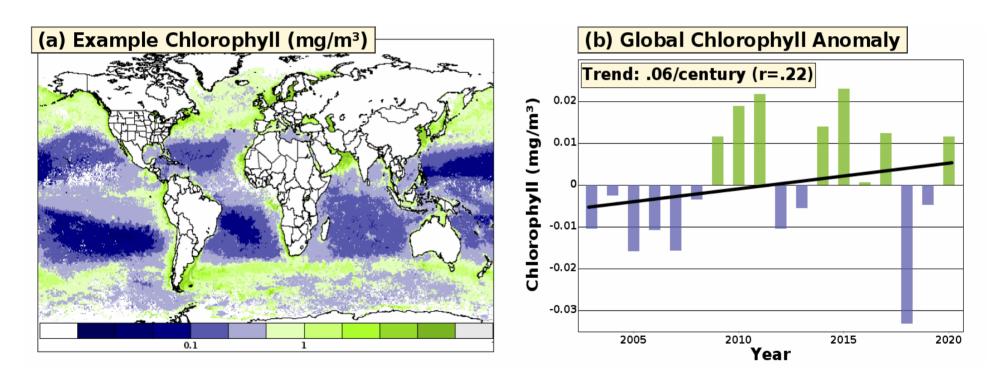


Plant Growth Has Increased

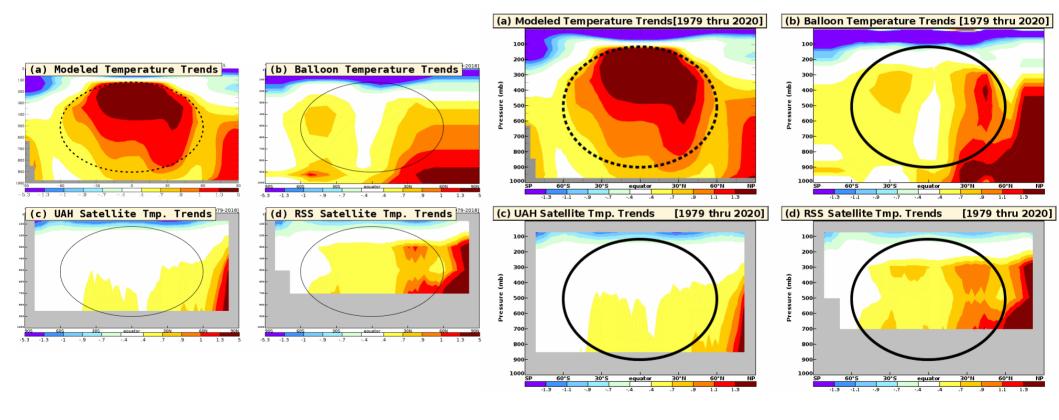




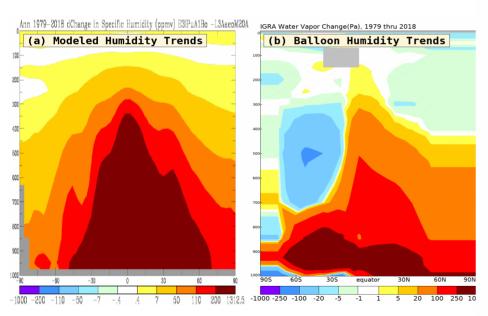
Phytoplankton May Increase

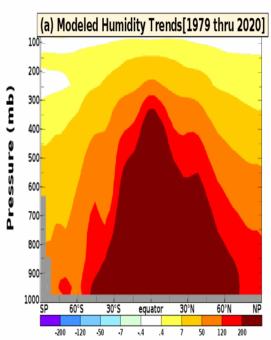


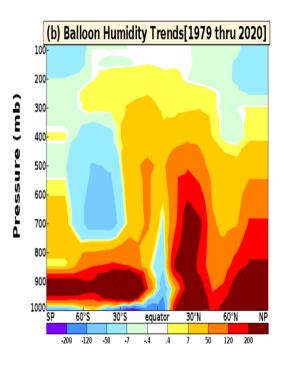
Models And Temperature Trends



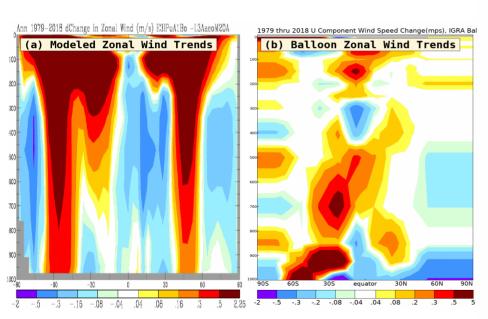
Models And Humidity Trends

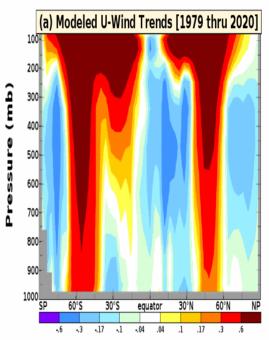


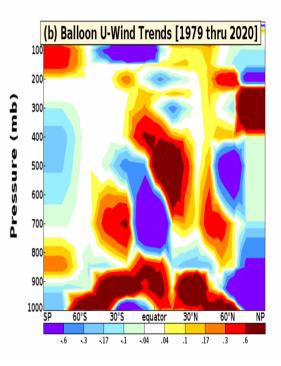




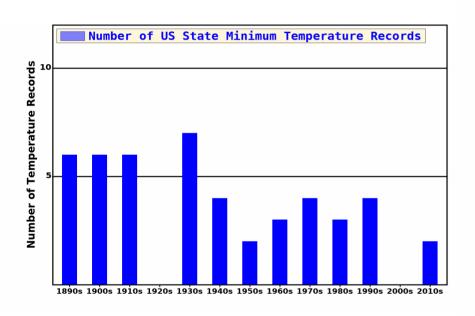
Models And Wind Speed Trends

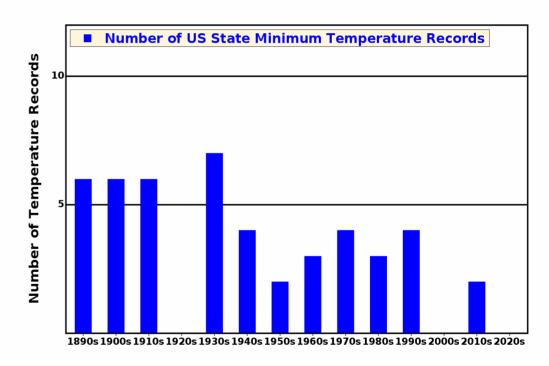




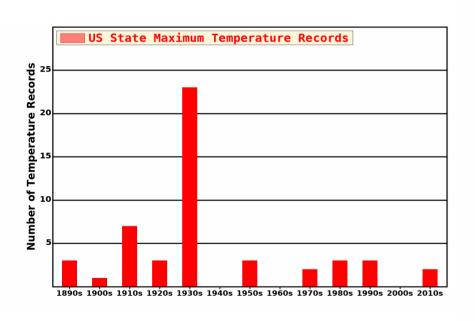


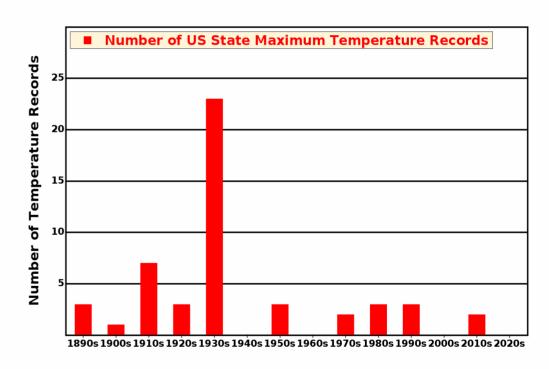
US State Minimum Temperatures



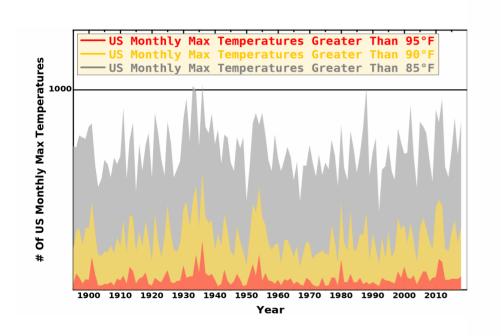


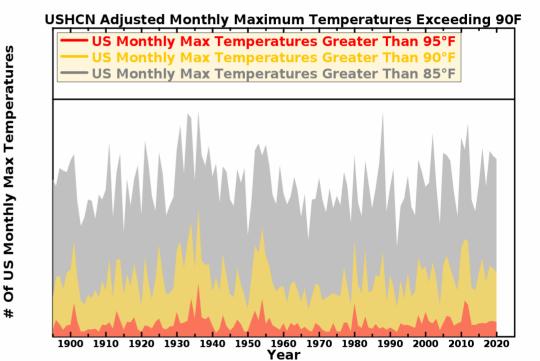
US State Maximum Temperatures



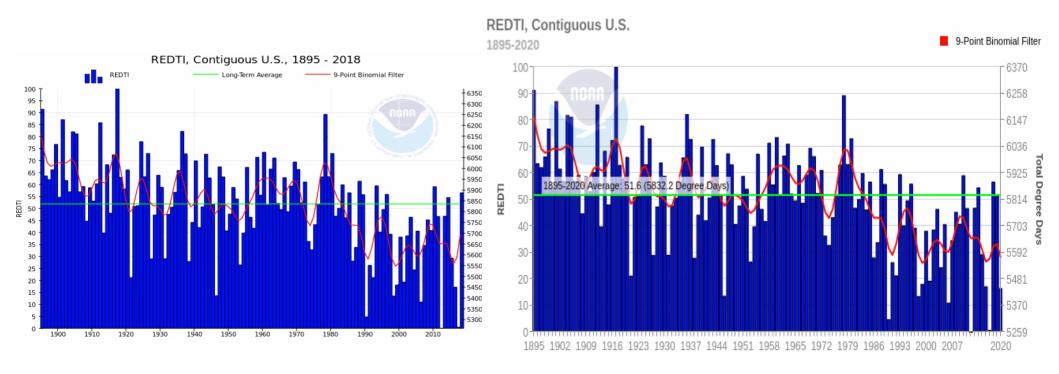


US Hot Months (95% complete)

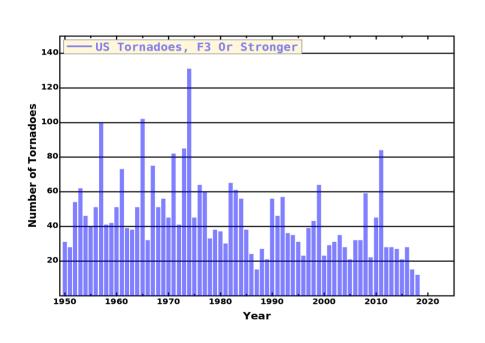


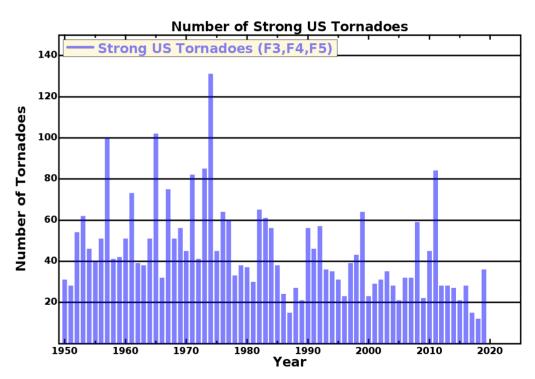


Decreasing US Heating+Cooling

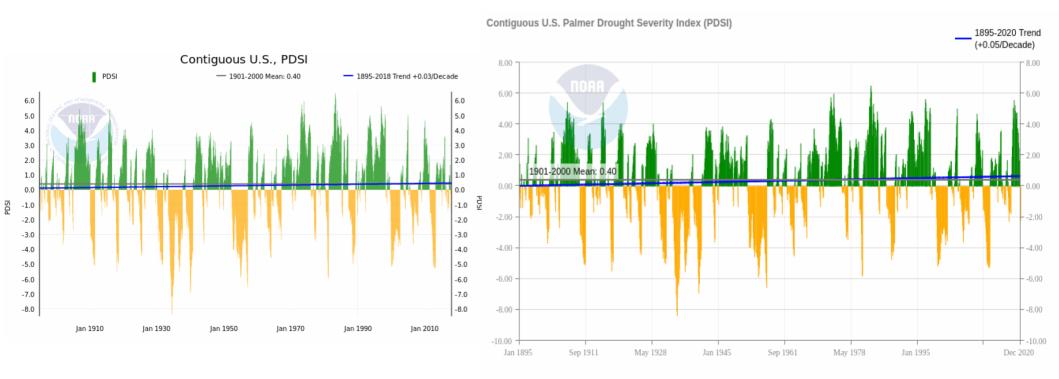


Fewer Strong Tornadoes in US

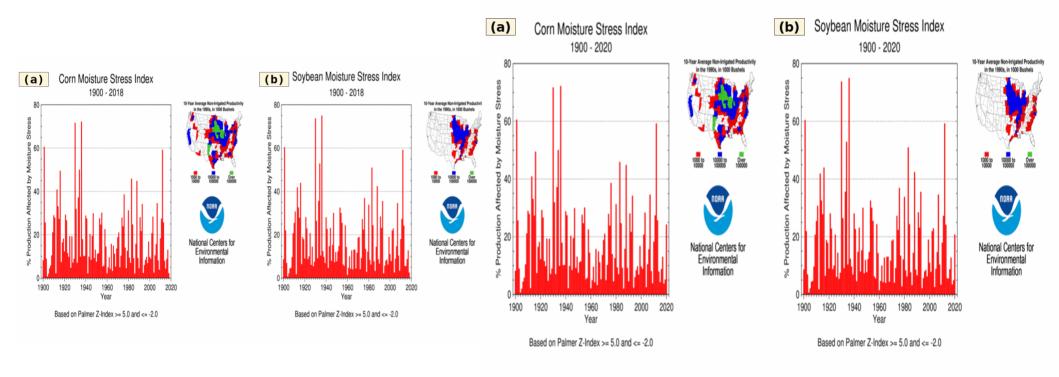




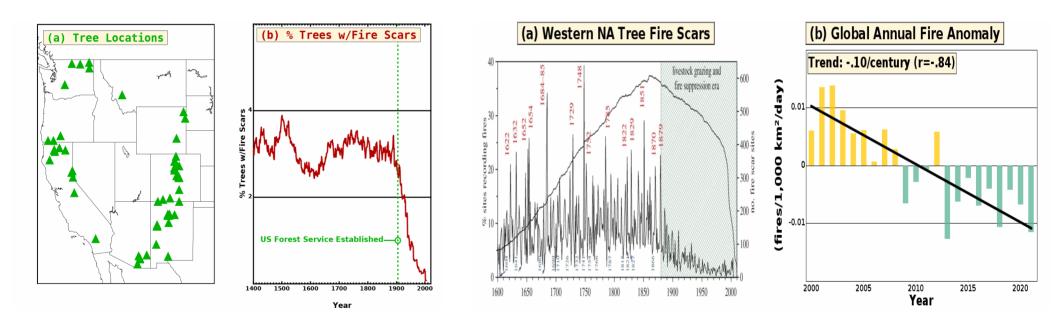
No Increased Drought For US



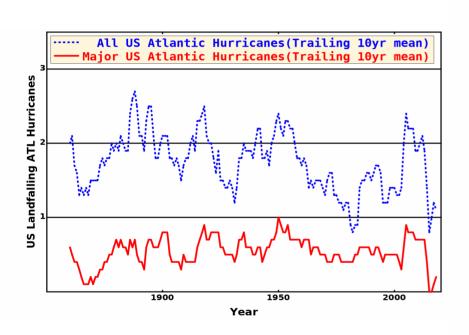
Decreased Soil Moisture Stress

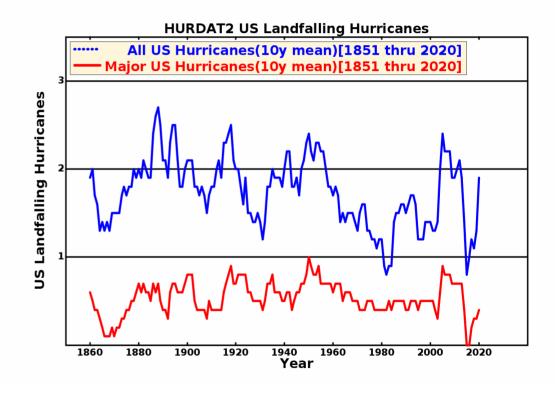


Decreasing Fires Globally

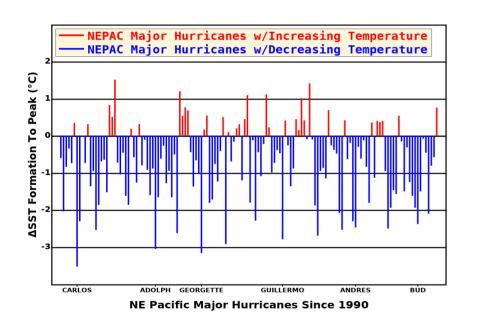


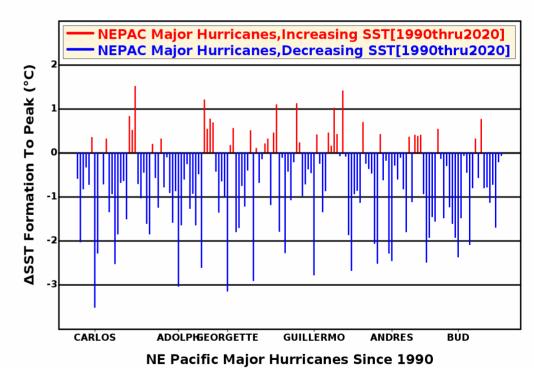
No Trend of US Hurricanes



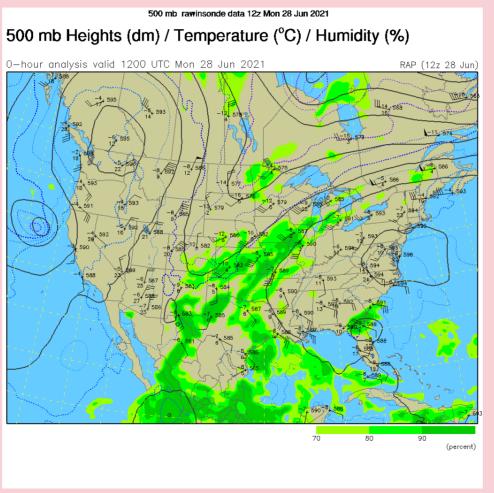


Cooling but Intensifying Hurricanes





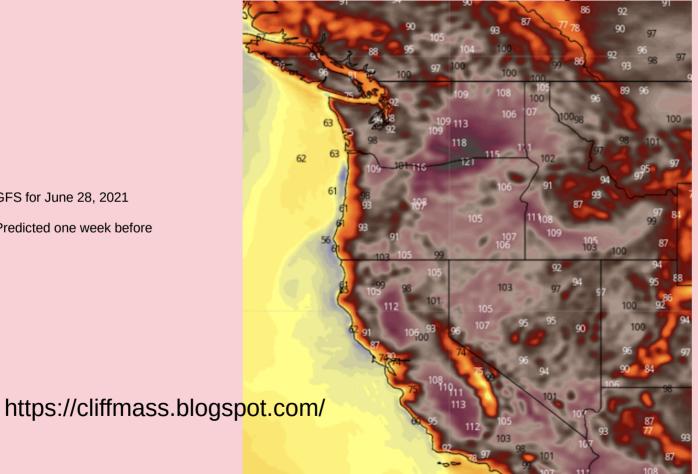
Observations of 2021 NW Heatwave



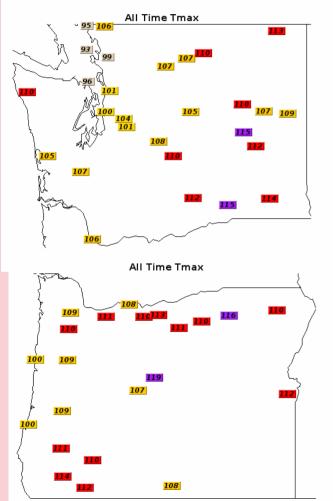
NW Heatwave – was predicted

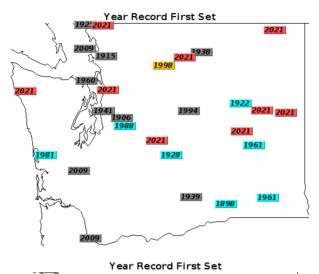
GFS for June 28, 2021

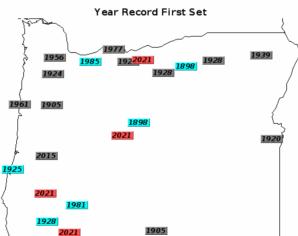
Predicted one week before

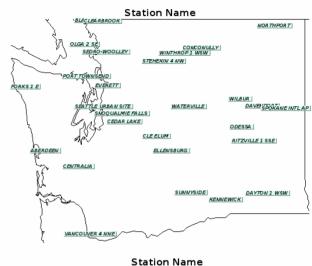


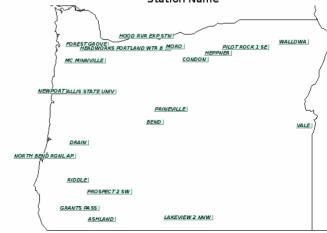
NW Heatwave – 80% stations



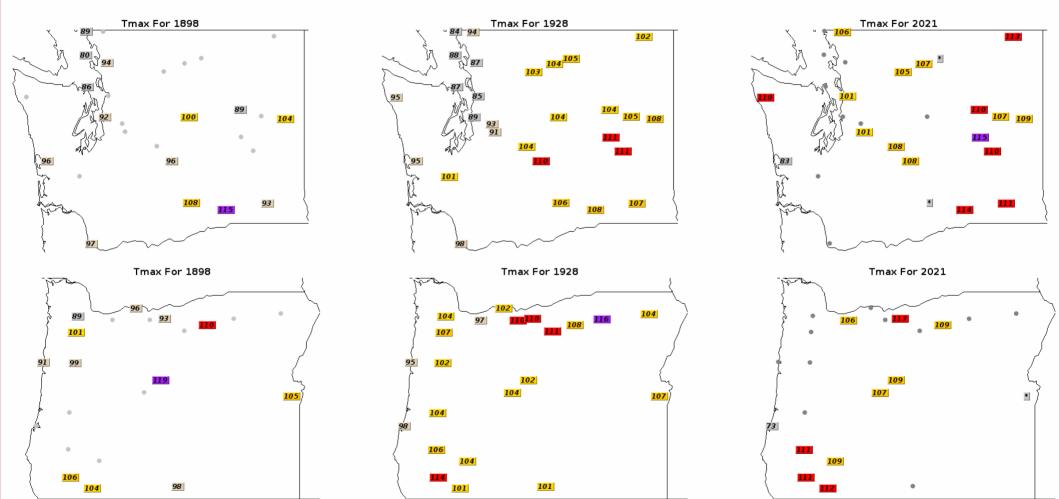




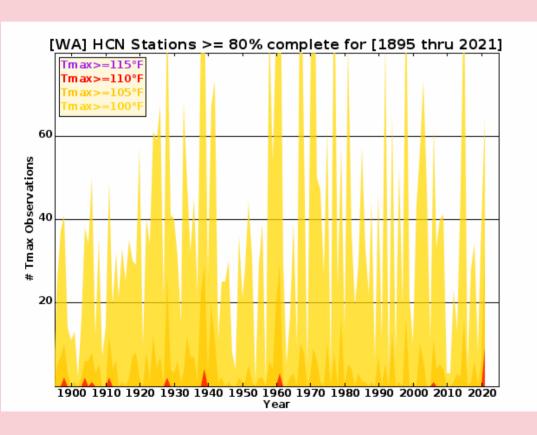


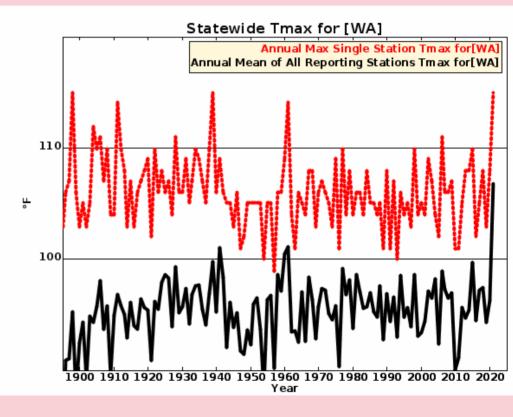


NW Heatwave – Compare Years

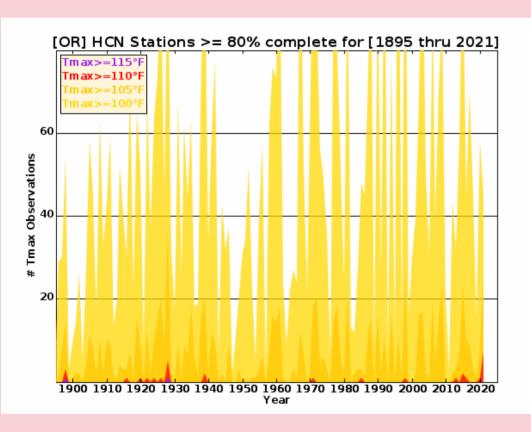


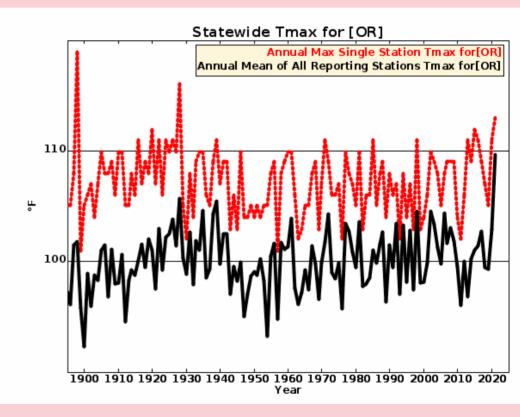
NW Heatwave – Trends Washington





NW Heatwave – Trends Oregon





Thank You!