

Climate Hysteria v. Climate Data, Les Hatton v27Feb24.

Dealing with Climate Hysteria

Background

Some recent examples from the Guardian for example

“Final warning”

“Now or Never”

“Crazy off-the-charts records”

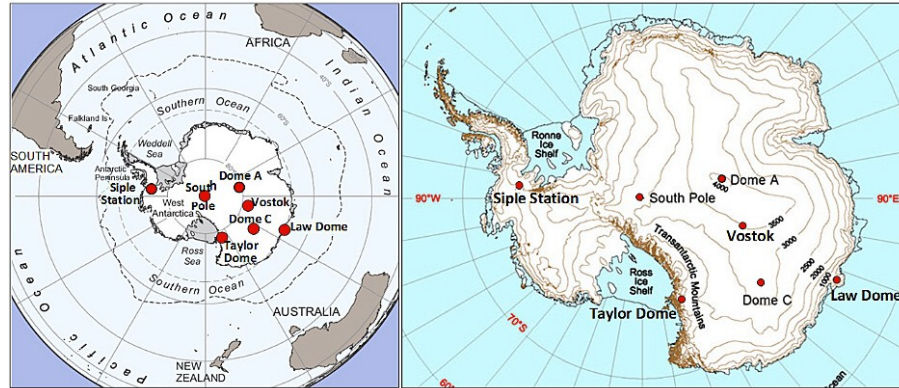
They claim that this is what climate scientists say. Let's apply the Feynman test.

How well does this stand up against climate data?

Background

The Vostok Ice-core dataset

Dates from 1957, drilling started 1970. 800,000 years of data sampled every century.



Questions for the Vostok dataset

Rate of temperature change

(“Unprecedented; running out of time”)

Current temperature and targets

(“We must limit the increase to 1.5C this century”)

Chicken or the egg?

(CO₂ / Temperature: which leads which?)

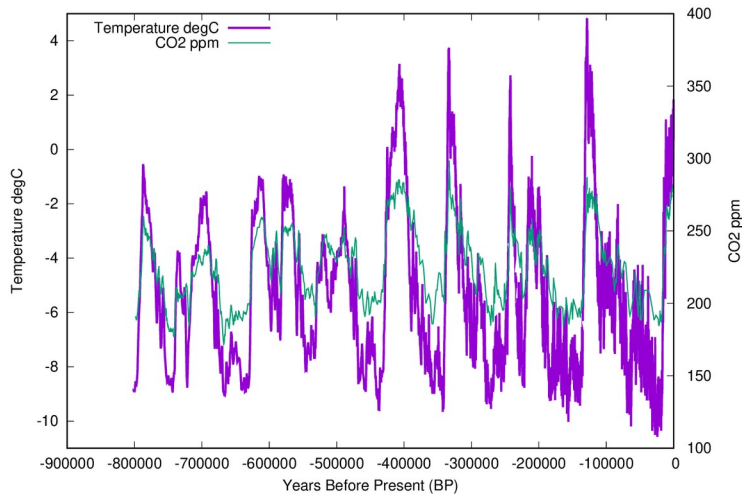
Rate of CO₂ change

(The real elephant in the room)

Some observations before deep diving into the data

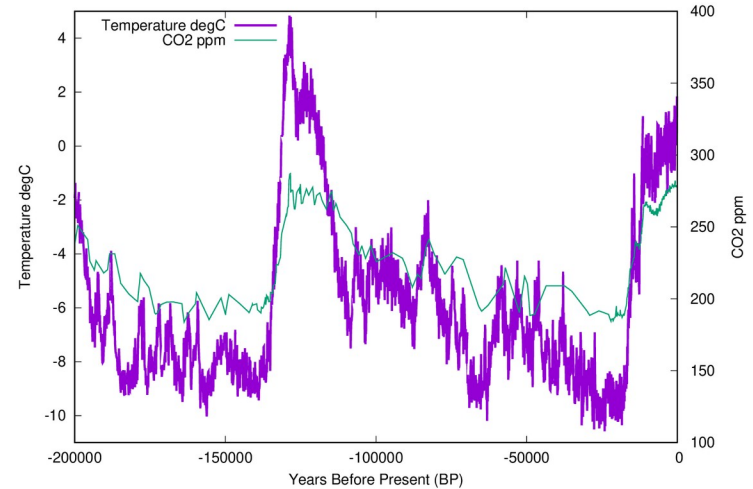
800,000 years of data, sampled in centuries

Vostok temperature and CO2 data



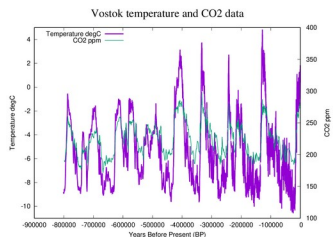
900,000 bp → 0

Vostok temperature and CO2 data



200,000 bp → 0

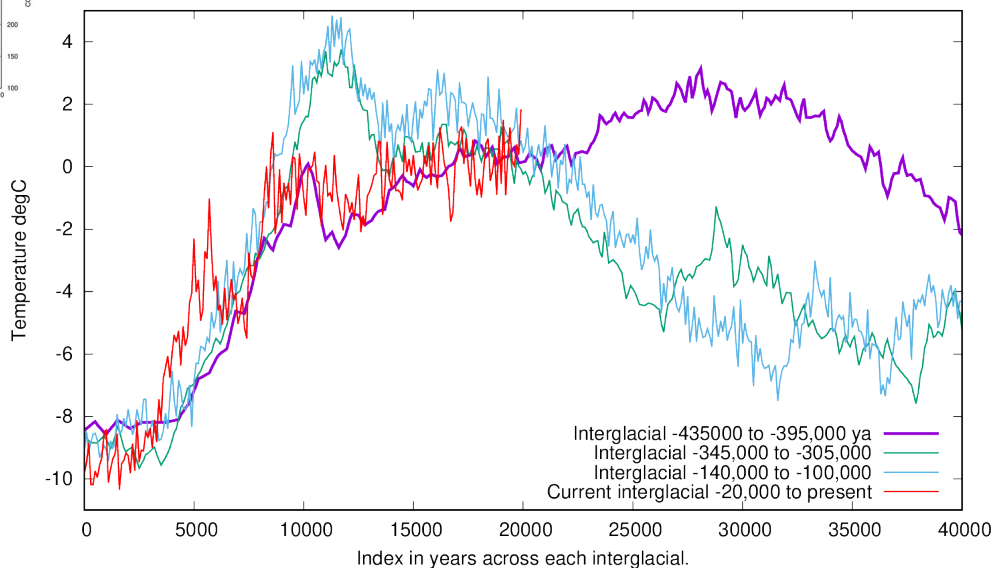
4 recent interglacial comparisons



Vostok interglacial comparison:

(Copyright Les Hatton 2024 - data from <http://www.climatedata.info/proxies/data-downloads/>)

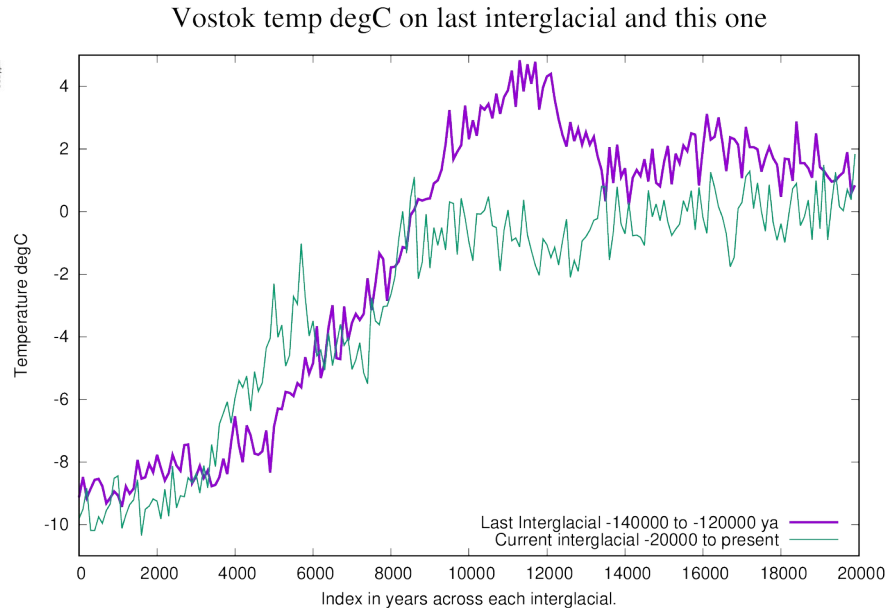
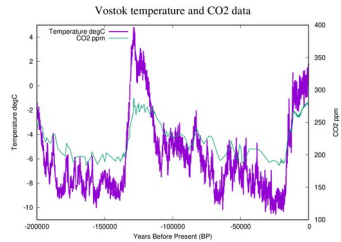
<https://leshatton.org/>



Notes:

1. Recent interglacials have higher frequency variability,
2. Recent interglacials are much shorter in duration,
3. Because of high-frequency variability estimating trends often requires > 500 years of data,
4. The current interglacial is similar to that starting 435,000 ya,
5. Current interglacial cooler than peak of any of these preceding interglacials.

Last interglacial v. current interglacial



Notes:

1. Note that last interglacial was significantly hotter than this one so far,
2. Some evidence that this interglacial is at least as volatile,
3. None of these data can have anthropogenic influences.

Rate of temperature change and the 1.5C “target”

How often has +/-2C per century been breached?

Year	Temperature change (deg C)	-CO2 change (ppm)
-110100	+2.170	-0.267
-96000	+2.630	+0.113
-71000	-2.470	-0.042
-65100	+2.050	-0.350
-59400	-2.480	+0.291
-57300	+2.820	+1.986
-53000	-2.570	-0.666
-46000	+2.610	+0.516
-41200	-2.130	+0.000
-37900	+2.570	+0.000
-31700	-2.860	-0.272
-27600	-2.650	+0.101
-27400	+2.120	+0.101
-12500	+2.740	+3.400
-11300	-3.260	+3.400
-6400	-2.340	-3.500
-900	+2.050	+0.664
-800	-2.410	+1.700



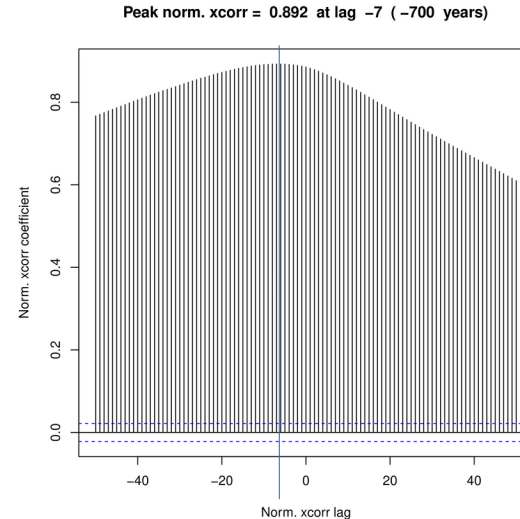
Current temperature and targets

- Note the following:
- The interglacials have been getting hotter in the last 400,000 years.
- The last interglacial, 120,000 years ago was over 4C hotter than today
- A change of at least 2C in one century has occurred on 18 occasions in the last 100,000 years, the last being 800 years ago.
- The last ice-age, finishing 20,000 years ago very nearly polished off all land-based life because of CO₂ deprivation. (Land-based photosynthesis fails below about 150 ppm of CO₂.)
- The temperature has varied between 4C hotter and around 10C cooler than today.
- The elephant room is the CO₂ increase, (considered later).

Chicken or the egg?

Climate models consider CO₂ as a forcing driver for temperature change.

... but the temperature leads the CO₂ by around 700 years in the Vostok dataset.



Rate of CO₂ change

The elephant in the room. We have added around 140 ppm of CO₂ to the base level of 280 ppm in the last century.

Conclusions: Dealing with Climate Change.

- Climate hyperbole is really damaging the debate with regard to policy: do/can we *prevent* or do we *mitigate*?
- How much is down to us? The media has moved from humans being “part” responsible to “entirely” responsible in 5 years.
- The escalation of hyperbole does not match climate data in important ways. What is its motive?

References

Online Resource: <http://ncdc.noaa.gov/paleo/study/17975>

Original Source URL:

<ftp://ftp.ncdc.noaa.gov/pub/data/paleo/icecore/antarctica/antarctica2015co2vostok.txt>

This paper

https://leshatton.org/Climate_hysteria_and_Climate_reality__a_clash_of_cultures.html