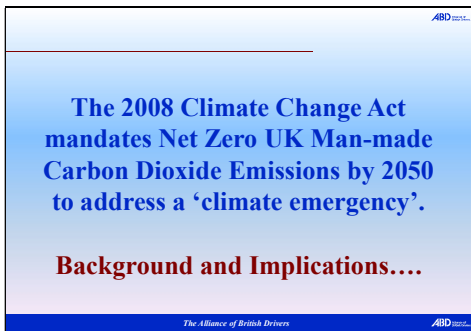


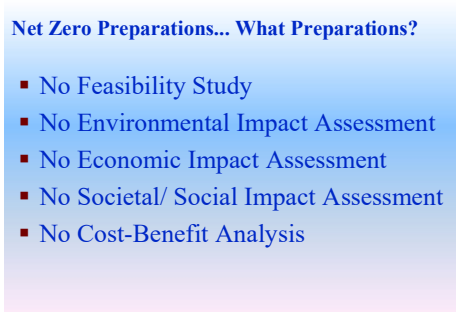
Slide 1



Slide 2



Slide 3



There have been no accurate attempts by government to assess the feasibility, social, environmental and economic impacts, or to carry out a Cost-Benefit Analysis of implementing a Net Zero Man-made carbon dioxide emissions strategy. Would these not be prudent things to do? Some solar physicists are predicting that we may actually be entering a GSM: Grand Solar Minimum - a cold period similar to the 1700s Maunder Minimum. The last thing we ought to be doing is to compromise our energy generation capacity through over-reliance on erratic renewables with insufficient conventional/ nuclear backup

Slide 4

MAGICC(?):

HOME ABOUT CONTACT SUPPORT CONTACT US

Even if the entire world adopts Net Zero policies it will reduce global temperatures by only 0.1°C by 2050 & 0.2°C by 2100

https://www.earth.org/2020/03/03/eliminate-fossil-fuels-now-u-s-climate-model-says-why-bother/

Eliminate fossil fuels now - U.S. "MAGICC" model says why bother?

Recent Tweets

The Alliance of British Drivers

The US MAGGICC (Model for Assessment of Greenhouse-Gas Induced Climate Change) computer model (yes, yet another one!) predicts that even if the entire world adopted a Net Zero Man-made CO₂ emissions strategy, this would bring about at most a 0.1°C (by 2050) to 0.2°C (by 2100) temperature fall. This is: (1) in practice not measurable, and (2) a poor ROI for an estimated £3 trillion expenditure by the UK alone. Is this money well-spent? Even from a "Lukewarmist" perspective, Björn Lomborg (False Alarm) & Michael Shellenberger (Apocalypse Never) suggest more cost-effective mitigation/ adaptation alternatives to the Net Zero strategy.

Slide 5

Good Money after Bad?

The GWPF estimates the cost of Net Zero policies to the UK alone at £3 trillion (>£100k per household!):

<https://www.thegwpf.com/cost-of-net-zero-will-be-astronomical-new-reports-warn/>

£3 trillion for a 0.1° - 0.2°C temperature reduction by 2100:
Money well-spent?

The Alliance of British Drivers

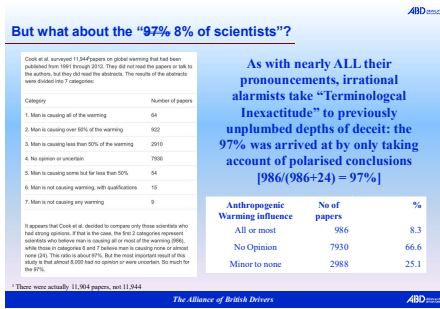
GWPF's (now Net Zero Watch) estimate of the cost of Net Zero implementation: >£100k per UK household (i.e., an HS2 scale project every year for three decades....)

Slide 6

There is *NO*
'Climate Emergency'

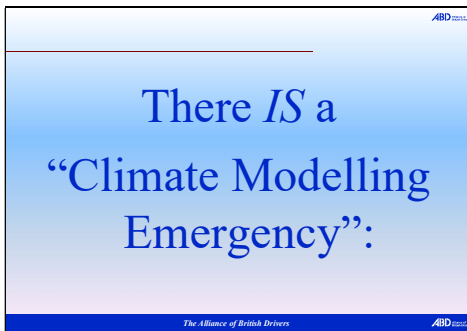
The Alliance of British Drivers

Slide 13



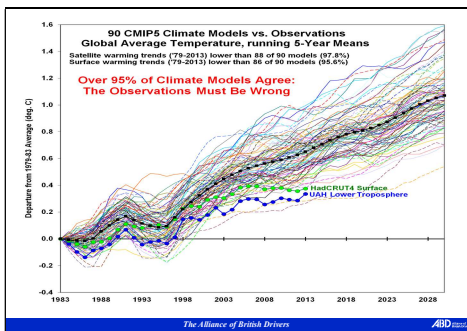
But what about the "97% of scientists" who agree there's a "crisis"? It's actually 8%

Slide 14



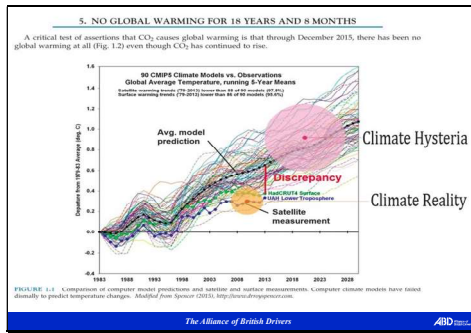
Climate Modelling Emergency

Slide 15



Largely self explanatory. Most GCMs (Global Circulation Models) are not only crap at accurately forecasting future temperatures, they cannot even be used to accurately model past temperature/ atmospheric CO₂ level relationships.

Slide 16



Climate Realism vs Climate Hysteria

Slide 17

Incorrect Greenhouse Warming Equations

Former NASA research & climate physicist Ferenc Miskolczi discovered in 2008 that IPCC's basic (infinite thickness atmosphere) greenhouse equations were incorrect. A finite thickness atmosphere version introduces a negative feedback (cooling) term; whose importance increases with altitude. NASA refused to publish his work. So he resigned.

Miskolczi, Ferenc M. 2007. "Greenhouse Effect in Semi-Transparent Planetary Atmospheres." *Intellia* 1(1), 1-40. & https://www.friendsofscience.org/assets/documents/E&E_11_4_2010_08-miskolczi.pdf

The Alliance of British Drivers ABD

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Slide 18

"Hotrod" Climate Models

Working with Ross McKittrick (of debunking Mann's spurious "Hockey Stick" fame), retired NASA climate expert John Christy has validated Miskolczi's work & identified one of the reasons climate models run excessively hot: they underestimate by c.50% the rate of upper atmosphere heat loss during periods of warming:

<https://www.sab.edu/news/news/paper-on-climate-model-warming-bias-co-authored-by-dr-christy-is-top-download> & <https://arxiv.org/abs/1010.2032v1>

The Alliance of British Drivers ABD

Working with Ross McKittrick (debunker of Mann's notorious "Hockey Stick" algorithm fame), & corroborating the conclusions of Miskolczi's theoretical work, retired NASA climatologist John Christy has established that the climate models all run hot because they underestimate the rate of upper atmosphere heat loss during warming periods by c.50%.

Slide 19

Politicisation of/ Misrepresentation in IPCC Reports

Dr. John Christy: "Little known to the public is the fact that most of the scientists involved with the IPCC do not agree that global warming is occurring. Its findings have been consistently misrepresented and/ or politicized with each succeeding report."

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Self-explanatory

Wijngaarden/ Happer True-to-Life Climate Model

Working together, Emeritus Physics Professor, William Happer, and W. A. van Wijngaarden have created a climate model that doesn't need a £multi-million Cray supercomputer to run, and agrees very closely with empirical observations

<https://www.youtube.com/watch?v=m73QYdhoCw> &
<https://www.wijngaarden.info.yorku.ca/files/2020/12/WThermal-Radiationf.pdf?x45936>

The Alliance of British Drivers

W. A. van Wijngaarden & Emeritus Physics Professor William Happer have derived a laptop operable climate model (no Cray supercomputer needed!) that very closely reproduces real-world measurements

<https://www.youtube.com/watch?v=m73QYdhoCw> &
<https://www.wijngaarden.info.yorku.ca/files/2020/12/WThermal-Radiationf.pdf?x45936>

Wijngaarden/ Happer Climate Model Conclusions

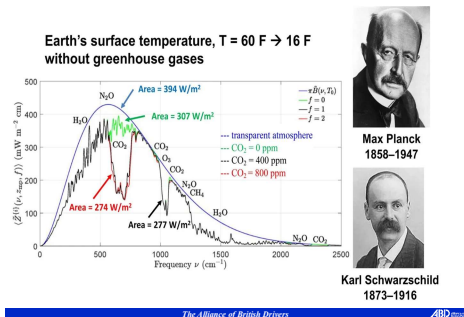
- If CO₂ were zero, it would make a big difference (about 25%) and the Earth would be cooler
- If CO₂ were doubled, it would make a very small difference
- CH₄ & N₂O are very hard to find on any graph [resulting from their modelling work]..Clearly they do not contribute [meaningfully] to the greenhouse effect
- Molecules of tiny concentration have even less effect
example of HFCs, with extremely high GWP numbers

<https://www.youtube.com/watch?v=m73QYdhoCw> &
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The Alliance of British Drivers

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example of HFCs, with extremely high GWP numbers



Building on Planck/ Schwarzschild's work, Wijngaarden/ Happer demonstrate that increasing atmospheric CO₂ from current c.400ppmv to 800ppmv would make only about a c.3Wm⁻² difference in absorption (in about 360Wm⁻² global average TSI [see slide 53]; so less than 1% increase).

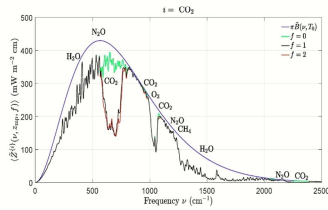


Figure 4: Effects of changing concentrations of carbon dioxide, CO₂ on the filtered spectral flux $Z^{\beta}(\nu, z_{\text{top}}, f)$ of (44) at the mesopause altitude, $z_{\text{top}} = 80$ km. The width of the filter (FS) was $\Delta\nu = 3$ cm⁻¹. The smooth blue line is the spectral flux, $Z = aB(f, T_s)$ from a surface at the temperature $T_s = 288.7$ K for a transparent atmosphere with no greenhouse gases. The green line is $Z^{\beta}(\nu, z_{\text{top}}, 0)$ with the CO₂ removed but with all the other greenhouse gases at their standard concentrations. The black line is $Z^{\beta}(\nu, z_{\text{top}}, 1)$ with all greenhouse gases at their standard concentrations. The red line is $Z^{\beta}(\nu, z_{\text{top}}, 2)$ for twice the standard concentration of CO₂ but with all the other greenhouse gases at their standard concentrations. Doubling the standard concentration of CO₂ (from 400 to 800 ppm) would cause a forcing increase (the area between the black and red lines) of $\Delta F^{\beta} = 3.0$ W m⁻², as shown in Table 2.

In their own words:

"Doubling the standard concentration of CO₂ (from 400 to 800ppmv) would cause a forcing increase (the area between the black & red lines) of 3Wm⁻²".

Scientific Implications

- Agreement between theory and experiment is the hallmark of good science
- The method of Wijngaarden & Happer meets that criterion
- It is far superior to the GCM [Global Circulation Models] in IPCC reports, which always predict too high temperatures
- More CO₂ makes only a very tiny difference
- More N₂O or CH₄ makes no difference at all

Therefore:

- Do NOT take expensive actions to mitigate climate change
- Do NOT strive to reduce CO₂ or other greenhouse gases

Scientific Policy Implications

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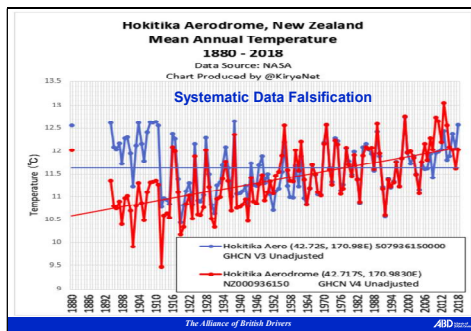
Fudging the Temperature Record

Fudging the Temperature Record

Systematic temperature data falsification

- Historical temperature station records being "adjusted" down - making the present appear anomalously warmer than the past: <http://www.earth-observations.org/faq/faq-temperature.html> & <http://www.earth-observations.org/faq/faq-temperature.html>
- Decommissioning of many rural measurement stations by neglect
- Remaining sites increasingly (semi-)urban
- Often increasingly inappropriately sited due to urban creep (e.g., on car parks, airports, near A/C unit outlets etc.)
- "Estimated" data added for enormous area where no temperature stations exist
- Static ocean buoy data being supplanted by mobile, shipboard sensor measurements. Carry your personal heat island with you!

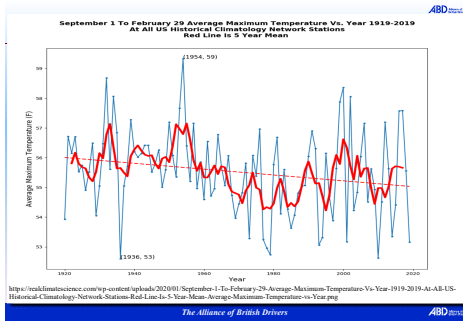
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NASA & NOAA have been engaged in systematic "adjustment" (i.e., falsification) of past temperature records to make the present appear anomalously warm. Many rural stations have not been maintained and fallen into disuse. Third World countries have a spectacularly poor record of maintaining the few stations in more remote or poverty ridden places, notably sub-Saharan Africa; so much of the data IPCC rely on is useless and/ or corrupted. Most of the northern hemisphere stations are in eastern USA and western Europe which leaves vast swathes of continental Eurasia uncovered. Due to creeping urbanisation (stations on or near airports, car parks, aircon outlets(!) etc), there are massive 'Urban Heat Island' distortions (for which IPCC does not correct) with urban, suburban and city stations in 'The West'. The entire southern hemisphere was covered by only eight stations, with none covering the vast expanse of oceans. One "ocean monitoring station" is 111km inland! So the southern averages are hopelessly compromised and effectively unusable, resulting in a wholly distorted whole-globe picture. For the larger part of the globe, there are *no* stations, so NASA/ NOAA input guesstimates. Ocean surface temperature buoys are also being surreptitiously replaced by shipboard readings.....

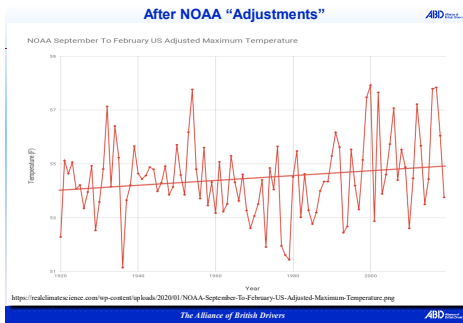
Example of "before" and "after" adjustments. They all go in the past (cooler than reported) to present "warmer" direction. No bias of course.....

Slide 28



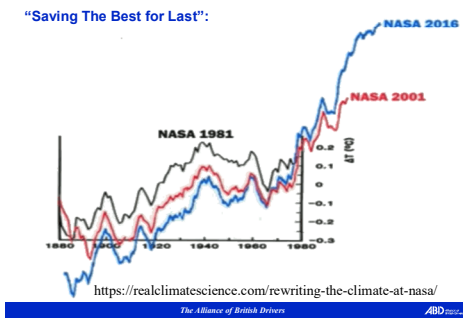
US Sep 1st to Feb1st average max temperatures
1919-2019 pre-NOAA "adjustments"

Slide 29



Post NOAA adjustments. You might call it
falsification, but I couldn't possibly comment.

Slide 30



Pretty self-explanatory: over time,
NASA/NOAA projections have become ever
more divorced from the reality of empirical
measurements.

Slide 31

ABD 2022

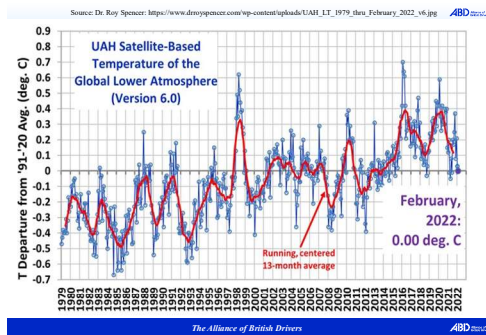
It's more difficult to fudge
internally-calibrated
satellite data...

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ABD 2022

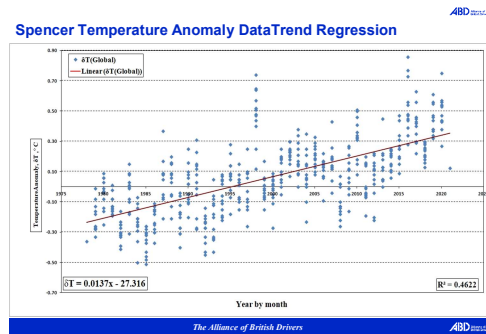
Self explanatory

Slide 32



By careful choice of baseline, a slight (+0.21°C vs 1991-2020 average as at Dec 2021) temperature rise is apparent. But this timescale choice hides the cooling that had occurred between the 40s and the late 70s, despite monotonically rising atmospheric CO₂ levels over that period. Needless to say, NASA/NOAA are trying to greenwash that fact out of existence. Don't forget the scale is in tenths of one degree; normal daily variations at most terrestrial sites can easily be 100 to 500 times this interval. The 13 month centred running average peaked over the 2016-2021 period & is static/ declining; ($\delta T=0.0$ °C at Feb22).

Slide 33



A warming trend (about a 1.4% increase per annum) does emerge from carrying out linear regression on the temperature data, **BUT** (hardly surprisingly) only about 46% of the temperature variation correlates with chronology. Myriad other factors are contemporaneously operating (see later slides).

Slide 34

ABD

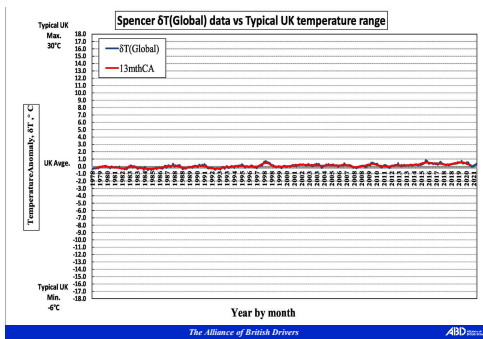
How do the empirically observed temperature variations over the last 40+ years appear, graphed on a scale that's meaningful to normal human beings?

The Alliance of British Drivers

ABD

How do the empirically observed temperature variations over the last 40+ years appear, graphed on a scale that's meaningful to normal human beings?

Slide 35



Temperature anomaly figures plotted against a scale which most of humanity occupying temperate climates would comprehend: +30°C to -6°C with a 12°C average. This amply demonstrates there is certainly no climate "emergency" or "crisis"

Slide 36

ABD

The uppermost 3m of the terrestrial oceans hold as much heat as entire atmosphere. It is variations in oceanic temperatures (& the influences that control them) that determine the terrestrial climate

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ABD

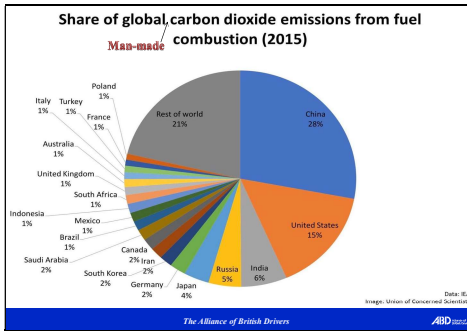
The Earth's oceans (two-thirds of the planet's surface area) represent the largest absorber of incoming solar energy & ultimately determine the climate.

Slide 37



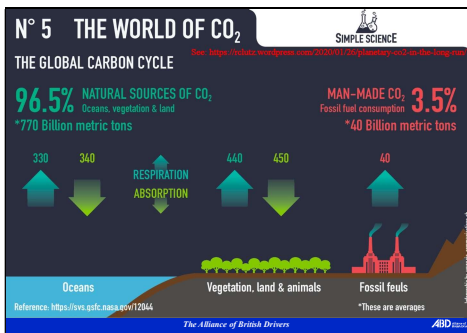
Self-explanatory

Slide 38



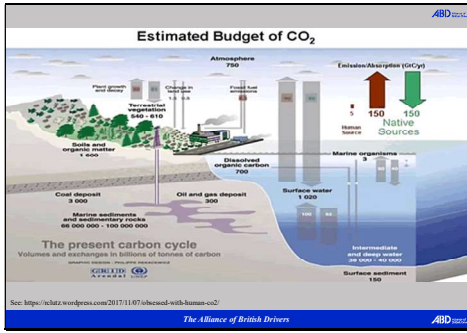
The UK is responsible for just 1% (& falling) of global Man-made CO₂ emissions.

Slide 39



Globally, Man-made CO₂ is estimated to represent about 40Gte of a c.800+Gte carbon cycle: <5%. The other 95%+ is from natural sources. There are substantial uncertainties regarding both the magnitude and the variability of natural emissions, which are of the order of total Man-made emissions. There are some 40-50,000 Gte of carbon locked in the deep oceans as carboniferous rock; which arose from the pressure fusion over aeons of the skeletons of dead oceanic life. The whole climate system is a linked, chaotic, non-linear system with so many degrees of freedom that current human computing capabilities are unable to accurately model it.

Slide 40

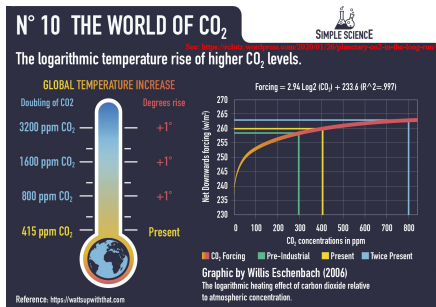


Webpage:

<https://rclutz.wordpress.com/2017/11/07/obsessed-with-human-co2>

gives an excellent overview of why our preoccupation with atmospheric CO₂ is unnecessary and unhelpful.

Slide 41



The warming effect of atmospheric CO₂ is logarithmically decaying, not linear. The current concentration is closing on the saturation point: each further CO₂-forced 1°C rise requires a doubling of atmospheric CO₂ concentration: a 1°C rise requires another 400ppmv of CO₂ (to 800ppmv), 2°C would require 1600ppmv & 3°C would require 3200ppm; a terrestrial atmospheric concentration not seen for some 150m years. Given the 50:1 partition coefficient between oceanic and atmospheric CO₂, and the amount of CO₂ permanently fixed as carboniferous rock (per slide 70), there isn't sufficient accessible carbon to support such an atmospheric concentration (though it would be great news for plant and animal life).

Slide 42

What are the Primary influences on the Terrestrial Climate?

The Alliance of British Drivers

Slide 43

ABD 2014

What actually controls the Terrestrial Climate (via its oceans)?

- **S**olar Activity
- **C**osmic **R**ay Environment
- **A**tmospheric Composition
- **M**ilankovich Cycles
- **M**iscellaneous:
 - Magnetospheric Variations*
 - Volcanic/ Tectonic Activity*
 - El Niño/ La Niña*
 - Beaufort Gyre*

Slide 8: <http://chata.wordpress.com/2017/11/07/what-actually-controls-the-terrestrial-climate/>

The Alliance of British Drivers ABD 2014

SCRAMM. If the sun stopped shining, the surface temperature of the Earth would halve approximately every two months, according to Cornell University imprint website Ask an Astronomer. This means that within a few weeks the temperature would be too cold to sustain terrestrial life.

<https://www.reference.com/science/would-happen-sun-stopped-shining-35a86855dabe6549>

Slide 44

ABD 2014

Other than atmospheric composition, IPCC Global Circulation Models take little to no account of any of the other foregoing factors in developing its "storyline" future temperature projections.

Little wonder, then, that they are of extremely limited utility (Slides 9, 10) in accurately modelling future temperatures

The Alliance of British Drivers ABD 2014

Self-explanatory

Slide 45

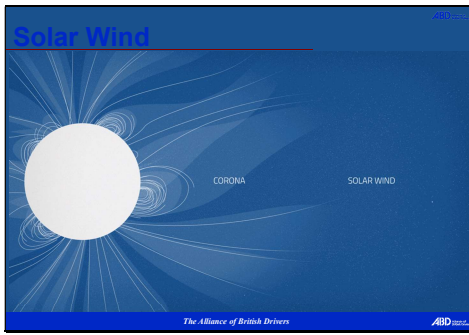
ABD 2014

Solar Activity

The Alliance of British Drivers ABD 2014

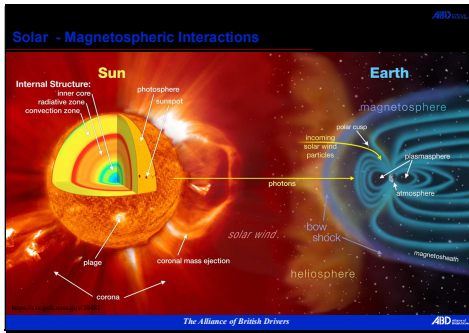
Solar Wind: the stream of charged particles/ electromagnetic radiation emitted by the Sun. Both a blessing (when it is strong it shields the Earth from harmful cosmic rays) and a curse (Earth's currently weakening magnetosphere shields us from the highest energy solar particles/rays).

Slide 46



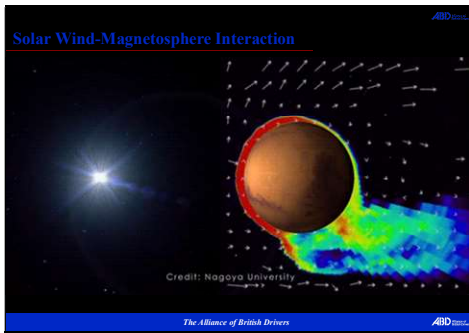
Solar Wind animation

Slide 47



Self-explanatory

Slide 48



Self-explanatory

Slide 49

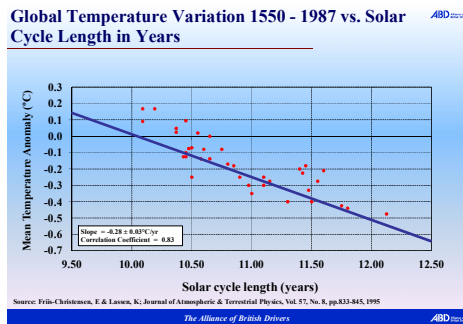
83% of variations in global temperatures since the late 1500's can be accounted for by variations in the length of the solar cycle, without need for any assumed Man-made "Global Warming" effects.

Fris-Christensen, E. & Lassen, K., Journal of Atmospheric & Terrestrial Physics, Vol.57, No.8, 1995, pp.833-845.

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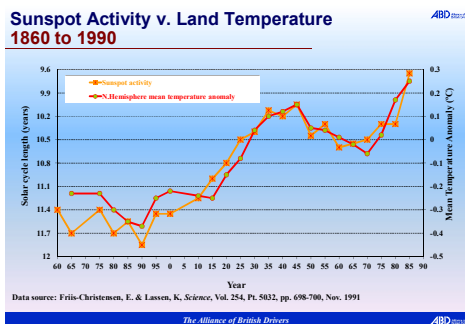
83% of variations in global temperatures since the late 1500's can be accounted for by variations in the length of the solar cycle, without need for any assumed Man-made "Global Warming" effects.

Slide 50

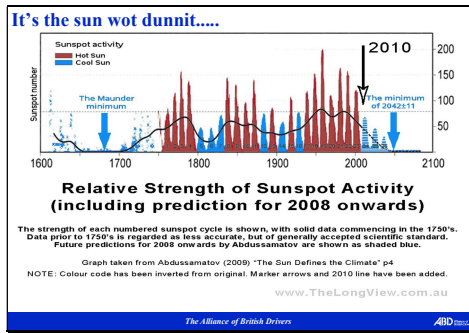


Sunspot activity vs. temperature since 1600. Strong observable correlation between high sunspot activity (Warm periods) and low solar activity (Cool ones).

Slide 51

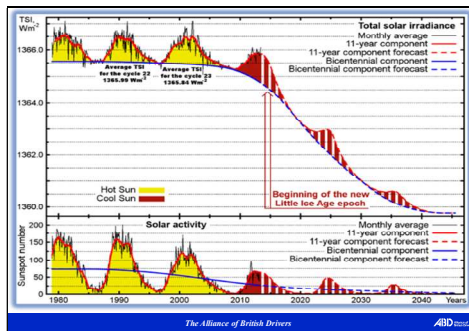


Slide 52



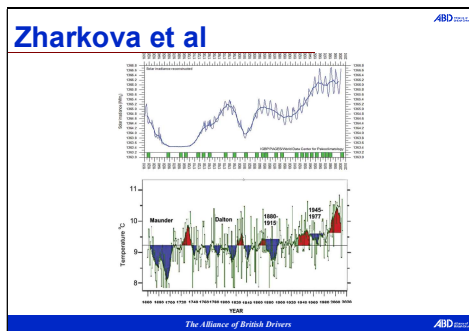
Sunspot activity vs. temperature since 1600. Strong observable correlation between high sunspot activity (Warm periods) and low solar activity (Cool ones).

Slide 53



Under certain circumstances (on which more later), only a small drop in TSI (Total Solar Irradiance), of the order of 6Wm^{-2} (in c. 1360Wm^{-2}), again correlating extremely well with sunspot activity, is needed to flip the Earth between Warm and Cool periods.

Slide 54



Ukrainian astrophysicist Valentina Zharkova et al (<https://www.tandfonline.com/doi/full/10.1080/23328940.2020.1796243>) have successfully characterised the interaction between the Sun's independent poloidal & toroidal magnetic fields. When in-phase, reinforcement occurs, boosting the Solar Background Magnetic Field (SBMF). At other, counter-phase intervals, field interference and partial mutual cancellation occurs, reducing SBF. Entering the current solar cycle (No.25), the sun's two poloidal fields are counter-phase. The currently observed, resultant reduced SBF is predicted to persist into Cycle 26 (which ends towards 2040). Her (& co-workers) model of the 1660 to 2020 period shows a very strong correlation of solar-magnetic variations with observed temperature variability (far superior to that with atmospheric CO₂ levels).

Slide 55

Temperature variation since 1750 largely accounted for by superposing De Vries solar & AMO/PDO oceanic activity cycles

- Nearly all the observed temperature variation since 1750 can be accounted for by superposing:
 - The (c.200 year) De Vries/Suess solar activity cycle, &
 - The (c.65 year) AMO/ PDO oceanic cycle (effect of solar activity on the Atlantic & Pacific oceans; modulated by oceanic specific heat capacity; hence time-delayed)

References:

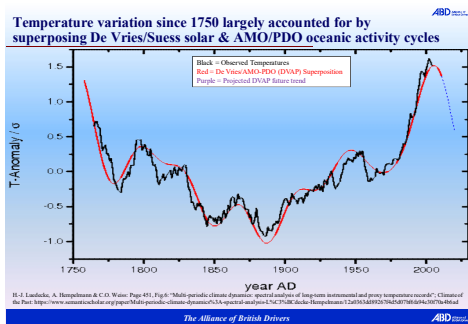
- http://hub.jhu.edu/courses/twimberley/environment/de_vries.pdf
- <https://notalotofpeopleknowthat.wordpress.com/2013/10/21/amo-pdo-cycles/>
- <https://wattsupwiththat.com/2013/12/17/solar-amo-pdo-cycles-combined-reproduce-the-global-climate-of-the-past/>
- <https://schillerinstitute.com/media/carl-otto-weiss-le-changement-climatique-est-du-a-des-cycles-naturels/>

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- The (c.65 year) AMO/ PDO oceanic cycle (effect of solar activity on the Atlantic & Pacific oceans; modulated by oceanic specific heat capacity; hence time-delayed)

Slide56



Graphical confirmation of Slide 55's assertions. Solar activity (/broadly inversely related) cosmic ray activity & ocean temperatures are the primary determinants of the terrestrial climate, modulated by the other influences per Slide 77. From: H.-J.Luedecke, A. Hempelmann & C.O. Weiss: Page 451, Fig.6: "Multi-periodic climate dynamics: spectral analysis of long-term instrumental and proxy temperature records":

<https://www.semanticscholar.org/paper/Multi-periodic-climate-dynamics%3A-spectral-analysis-L%C3%BCdecke-Hempelmann/12a0363dd89267f4d5d07bf6fa94e30f70a4b6ad>

Atmospheric CO₂ is a climate *follower*.

Slide 57

Cosmic Ray Environment

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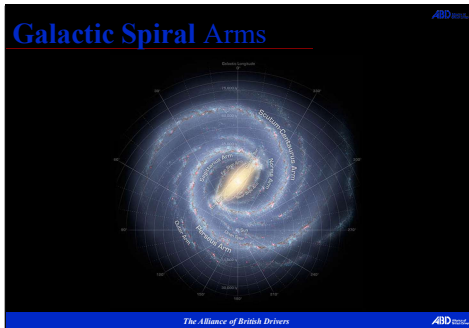
Slide 58



Another major influence on terrestrial climate is the cosmic ray environment. When solar activity is high, terrestrial cosmic ray incidence is suppressed. When it is low, terrestrial cosmic ray incidence increases. With consequences:

- Low level cloud formation increases. Landmark research by Henrik Svensmark & co-workers at the Danish Meteorological Institute (and subsequently at the CERN Nuclear Physics facility) has unequivocally elucidated the mechanism by which cosmic rays initiate low level-cloud formation See: *'The Chilling Stars'*, by Svensmark and Calder, Chapter 4, pp.99-131.
- Low-level clouds reflect solar energy back into the upper atmosphere, shield the Earth's surface and cause cooling. A 4% increase in low level terrestrial cloud cover reduces the global temperature by 2°C [Slide 54].
- Increased cosmic ray incidence disrupts the normally stable, polar-cap jetstream [Slide 55].
- The highest energy cosmic rays only interact with the really dense matter (magma) found in the Earth's core. This heats the magma, promoting volcanic activity/ eruptions, tectonic movement and earthquake activity [Slides 56/57].

Slide 59



When the Solar System passes through one of our galaxy's Spiral Arms, cosmic ray activity is further enhanced, because Earth is exposed to higher cosmic ray incidence in a high stellar density environment, where a higher frequency of past (cosmic ray-generating) stellar extinction events has occurred.

Slide 60

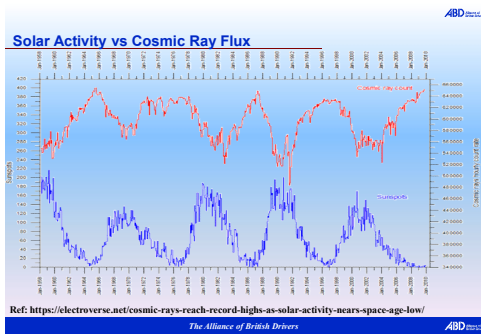
Solar Activity & Temperature Anomaly

Solar activity over the past several centuries can be reconstructed using different proxies. These reconstructions demonstrate that 20th century activity is unparalleled over the past 600 years (previously high solar activity took place around 1000 years ago, and 8000 yrs ago). Specifically, we see sunspots and ^{10}Be . The latter is formed in the atmosphere by $\sim 1\text{GeV}$ cosmic rays, which are modulated by the solar wind (stronger solar wind \rightarrow less galactic cosmic rays \rightarrow less ^{10}Be production). Note that neither proxy captures the decrease in the high energy cosmic rays that took place since the 1970's, but which the ion chamber data does.

Ref: <http://www.sciencebits.com/CO2orSolar>

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Slide 61



Slide 62

Calder, Svensmark et al, Shaviv..

- Calder & Friis-Christensen's pioneering studies on the effects of the complex interaction between solar activity (& inversely-related) cosmic ray incidence on the terrestrial climate have been followed up by Henrik Svensmark et al, & Israeli physicist, Nir Shaviv.
- In a nutshell, solar activity modulates terrestrial cosmic ray incidence; which in turn primarily controls temperature-regulating over-oceanic low-level cloud formation
- A potted history of their conclusions can be found in the aptly-named, "*The Chilling Stars*", by Henrik Svensmark & Nigel Calder: ISBN10:1-84046-815-7/ISBN13:978-1840468-15-1
- See Svensmark here: <https://www.youtube.com/watch?v=wU1qg8HecGJ> &
- Nir Shaviv also here: https://www.youtube.com/watch?v=6t5R5Bp_RXE &

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Inverse relationship between solar activity & cosmic ray incidence.

- Calder & Friis-Christensen's pioneering studies on the effects of the complex interaction between solar activity (& inversely-related) cosmic ray incidence on the terrestrial climate have been followed up by Henrik Svensmark et al, & Israeli physicist, Nir Shaviv.
- In a nutshell, solar activity modulates terrestrial cosmic ray incidence; which in turn primarily controls temperature-regulating over-oceanic low-level cloud formation
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Slide 63

Galactic Spiral Arms

"In the last half billion years, Earth has lost, four times, its polar caps: no ice at the North Pole and none at the South Pole. And, four times, the polar caps were reconstituted. Man did not exist then, only the so-called cosmic rays, discovered by mankind in the early twentieth century. The last cosmic ice age started 50 million years ago when we entered into one of the galaxy [spiral] arms."

Dr. Antonio Zichichi, President of the World Federation of Scientists

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Self-explanatory

Slide 64

Clouds of Complex Obscurity

*"A 4% increase in terrestrial low-level cloud cover would change [reduce] the global climate by 2°C"*¹

IPCC GCM models do not take any account of low-level cloud cover variation, or its effect on climate. Why? Because it's currently too complex to computer model

<https://climatediscussionnexus.com/2020/08/26/the-madness-of-clouds/?fbclid=IwAR2P7pH-OK4UBm4N4hLs4AA360NBsbMb4OZaKMECVtwSviFJGLIdTXDEz0c>

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A 4% increase in low level terrestrial cloud cover reduces the global temperature by 2°C: [https://climatediscussionnexus.com/2020/08/26/the-madness-of-clouds/?fbclid=IwAR2P7pH-OK4UBm4N4hLs4AA360NBsbMb4OZaKMECVtwSviFJGLIdTXDEz0c]

Slide 65

Meridional Jetstream

The Changing Jet Stream

Stable jet stream
A stable jet stream flows on a somewhat straight path.

Wavy jet stream
A wavy jet stream allows warm air to move north or colder air to sink deeper south.

Warm air moves north

Cold air moves south

©2019 NOAA

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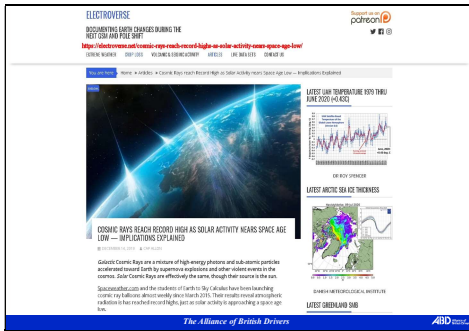
Increased cosmic ray incidence also disrupts the normally stable polar cap jetstream & converts it into a Meridional (more erratic, wavy) flow pattern; drawing warm air anomalously far North and & cold air anomalously far South in certain regions. A meridional jetstream (i.e., polar cooling) increases the Pole-to-Equator temperature differential and hence the frequency and intensity of extreme weather events. Warming does the **reverse**.

Slide 66



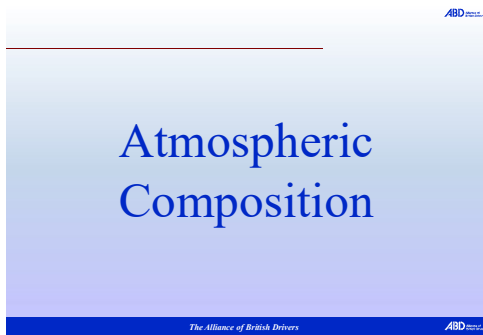
Backup references to Slides 51 - 55

Slide 67



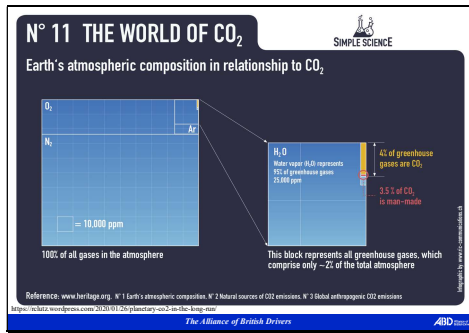
Backup references to Slides 51 - 55

Slide 68



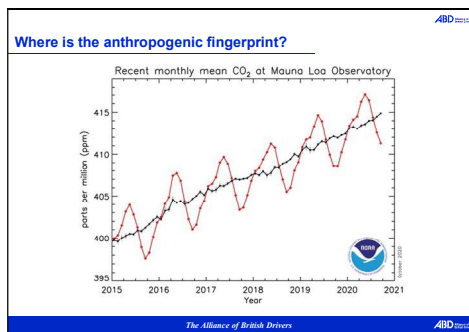
Self-explanatory

Slide 69



- Gases with a global warming influence
- constitute roughly 2 - 2.5% of the atmosphere.
- Water vapour represents 95% of the atmospheric global warming gases present.
- As a GWG, water vapour is 7x (seven times) more potent molecule for molecule than CO₂: it absorbs over a wider IR range & has more absorption bands than CO₂.
- There is some 60 times as much atmospheric water vapour as there is atmospheric CO₂
- Man-made CO₂ represents less than 5% of the 0.04% of total atmospheric CO₂.

Slide 70



If the Climate Science Denier Warmists were correct, and CO₂ drives climate, Covid-19 should have generated some falloff in atmospheric CO₂ levels (monthly readings: wiggly red line) and (black) trendline, as there has been a substantial decline in Man-made CO₂ emissions over the period of the outbreak. No such drop is perceptible, just a reported continuing monotonic increase. Warmists ascribe this to 'natural variation' masking anthropogenic effects. Why can this *only* have happened *now*? Given the recorded 600-1,000 year lag between temperature changes and subsequent atmospheric CO₂ concentration response, isn't that a more likely explanation? Latest research (using ¹⁴C specific activity) indicates that only one-eighth of the 140ppmv atmospheric CO₂ increase (from an estimated 280ppmv in 1750 to a measured 420ppmv today); arises from human activities; i.e., only 17.5ppmv. The remaining seven-eighths (122.5ppmv) of it arise from natural sources, totally outside human control. There is also substantial re-absorption by natural carbon exchange reservoirs. This refutes the conclusions of all previous studies.

Slide 71

Latest research (using ¹⁴C specific activity) indicates that only one-eighth of the 140ppmv atmospheric CO₂ increase (from an estimated 280ppmv in 1750 to a measured 420ppmv today); arises from human activities; i.e., only 17.5ppmv. The remaining seven-eighths (122.5ppmv) of it arise from natural sources, totally outside human control. There is also substantial re-absorption by natural carbon exchange reservoirs. This refutes the conclusions of all previous studies.

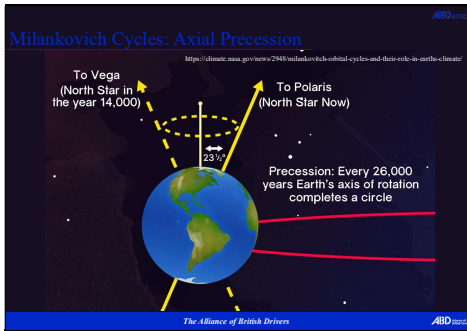
https://journals.bw.com/health-physics/Fulltext/2022/02000/World_Atmospheric_CO2_Is_14C_Specific_Activity_2.aspx

Slide 72



Self-explanatory

Slide 73



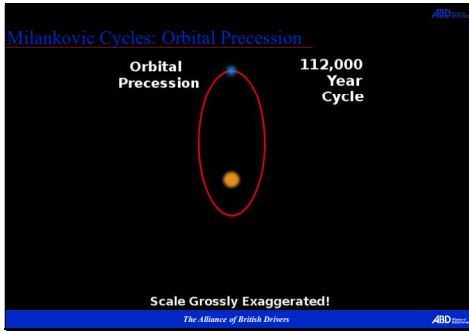
Milankovic cycles: Axial Precession

Slide 74



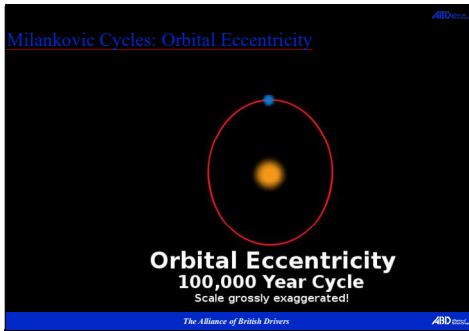
Milankovic cycles: Axial Precession

Slide 75



Milankovic cycles: Orbital Precession

Slide 76



Milankovic cycles: Orbital Eccentricity

Slide 77

Miscellaneous Additional Factors

- **Magnetospheric Effects** - currently weakening field; pole shift within next 10,000 years: reducing protection from solar effects. Cosmic rays largely too energetic to be affected
- **Volcanicity/ Tectonics** - highest energy cosmic rays penetrate to Earth's core before being absorbed; heats magma and promotes volcanic activity/ post-eruption atmospheric cooling/ earthquakes
See: e.g., Svalbard Plume:
http://www.totoku.ac.jp/inst/assess/assess/assess.html#thermal_activities.htm#mc_csl-020700036kw_csl-02040756
- **El Niño/ La Niña** - significant, recurring temporary warming/cooling effects over large oceanic areas:
See e.g.: <http://www.usafella.com/articles/how-to-prepare-yourself-for-el-nino.html> & <http://www.usafella.com/articles/how-to-prepare-yourself-for-la-nina.html>
- **The Beaufort Gyre** - Large climate swings *may* be triggered by the waxing and waning this phenomenon; which has the potential to disrupt the Gulf Stream & the mild Western European climate of the current era. See:
<http://climatechange.allbritain.com/press/04/040404.htm>

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Other influences:

- Magnetospheric: weakening polar fields presaging c.10kyr cyclic pole switch. Highest energy cosmic rays largely unaffected by this
- Low solar activity permits increased CR incidence. Increased low level cloud formation aside, CR absorption by magma stokes climate-influencing volcanic/ tectonic/ geothermic activity (e.g., Svalbard & Thwaites Glacier plumes).
- AMOC, El Nino/La Nina, self-explanatory.
- Beaufort Gyre - any instability has potential effects on Gulf Stream & hence Western European climate

Slide 78

ABD 2011

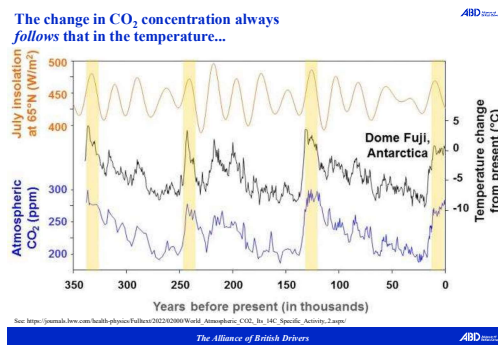
Inconveniently, the carbon dioxide “horse”
obdurately lags behind the
temperature “cart”:

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ABD 2011

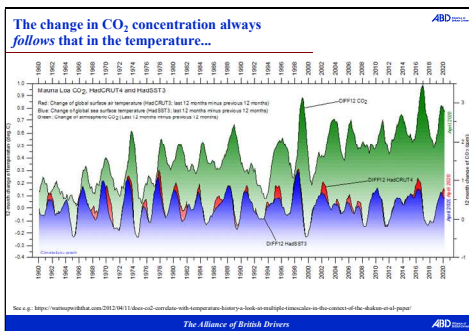
The cart is definitively preceding the horse.....

Slide 79



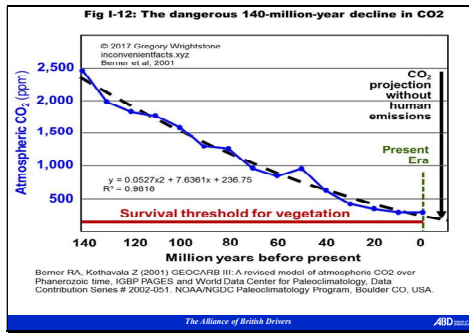
Over millennial timescales, external (i.e., natural, solar cycle-induced) warming & cooling always precede atmospheric CO₂ concentration increases (oceanic degassing) & decreases (oceanic CO₂ resolubilisation).

Slide 80



Atmospheric/ oceanic temperature changes invariably precede atmospheric CO₂ concentration changes, even on a short-term scale. How can atmospheric CO₂ be driving changes in the terrestrial climate (as opposed to responding to them) unless it can "temporally-tunnel"? Even Dr. Who would struggle to square that circle!

Slide 81

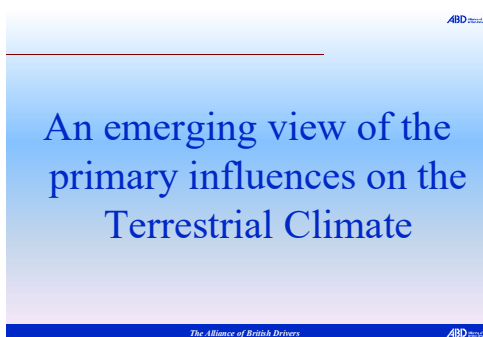


Over geological time (>140m years), terrestrial marine organisms have been progressively & very successfully sequestering CO₂ from the Earth's oceans (& consequently from the atmosphere in steady state interface with it) to create carboniferous "armour plate" exo-skeletons. These sank to the deepest ocean depths when the organisms died. Under the colossal pressures at those depths, over aeons the shells formed carboniferous rocks, while the organic matter was transformed into oil. Atmospheric CO₂ concentration has consequently been on a declining trend that could have disrupted the Carbon Cycle & potentially threatened the survival of all terrestrial life. Below 170ppmv of atmospheric CO₂, plant life can no longer sustain itself. Shortly thereafter, nor would any other land-based life on Earth. Inadvertent human intervention (through fossil fuel combustion) temporarily staved off the extinction risk & rebalanced the Carbon Cycle. So the current, slight rise in atmospheric, whether or not consequent in part on rising CO₂ levels, is not only welcome but was actually *essential* to the survival of ALL terrestrial species. It is not in the least any kind of existential threat. See Greenpeace founder member, Patrick Moore, talking at length on this topic (from 25min onwards) here:

<https://www.youtube.com/watch?v=UWahKIG4BE4&feature=youtu.be&fbclid=IwAR2mnBD AuZJ2mNVMw6QiRXh72klMasTnpeikc56W LAX6vesv-Ce1Pm4-wv8>

An Emerging View on terrestrial climate influences

Slide 82



Slide 83

Climate Space Pentahedron

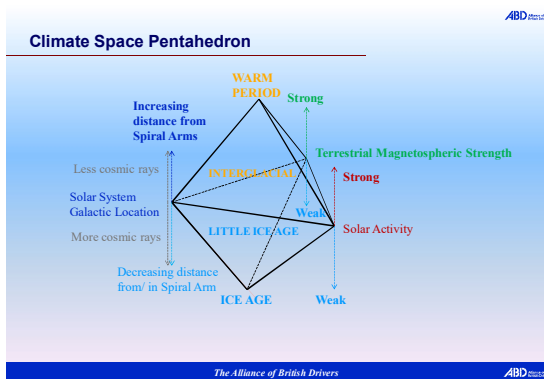
Axes	Condition	Condition
Galactic Location	Distant from Spiral Arm	In Spiral Arm
Solar Activity (incl. Malinkovic effects etc)	Strong	Weak
Terrestrial Magnetospheric Field	Strong	Weak
Outcome	Interglacial or Warm Period	Little or Full Ice Age

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Climate Space Pentahedron

The emerging climate theory (which has partially been validated) is that the extremely complex interplay between solar activity, cosmic rays and the terrestrial magnetic field are primary determinants of the magnitude of the energy absorbed by the Earth's oceans - which consequently drives terrestrial climate change. Refers back to Slide 63 Zichichi Spiral Arm quote

Slide 84



In periods when: (1) solar activity and the Earth's magnetic field are both strong, and (2) cosmic ray incidence & consequential low level cloud cover is suppressed, and (3) the Solar System is not close to, or in, a Galactic Spiral Arm, the Earth enjoys an Interglacial or full-blown Warm Period.

Conversely, when (4) solar activity is weak, (5) cosmic ray incidence & consequent low-level cloud cover are enhanced, and (6) the Solar System is close to, or in, a Galactic Spiral Arm, Earth suffers a Cold Period or a full-blown Ice Age.

Refers back to Slide 63 Zichichi Spiral Arm quote

Slide 85

Some Illuminating Background.....

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Slide 86

ABD 2022

Quotes from UN/ IPCC officials

Christiana Figueres, Executive Secretary of the UN Framework Convention on Climate Change 2010-16:

"This is the first time in the history of mankind that we are setting ourselves the task of intentionally, within a defined period of time, to change the economic development model that has been reigning for at least 150 years, since the Industrial Revolution."

continuing:

"This is probably the most difficult task we have ever given ourselves, which is to intentionally transform the economic development model for the first time in human history."

Source: <https://www.armstrongeconomics.com/world-news/limit-of-global-warming-is-about-destroying-capitalism/>

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ABD 2022

UN/ IPCC quotes

Slide 87

ABD 2022

Quotes from UN/ IPCC officials

Ottmar Edenhoffer, UN co-chair of the Intergovernmental Panel on Climate Change working group on Mitigation of Climate Change from 2008 to 2015.:

"One has to free oneself from the illusion that international climate policy is environmental policy. This has almost nothing to do with the environmental policy anymore, with problems such as deforestation or the ozone hole,".....

continuing:

"We redistribute de facto the world's wealth by climate policy."

Source: <https://www.investors.com/politics/editorials/another-climate-alarmist-admits-real-motive-behind-warming-scare/>

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ABD 2022

UN/ IPCC quotes

Slide 88

ABD 2022

Quotes from a climate activist

Naomi Klein, author (*This Changes Everything: Capitalism vs. the Climate*) & climate activist:

"What if global warming isn't only a crisis?"

Klein asks in a preview of a documentary inspired by her book.

"What if it's the best chance we're ever going to get to build a better world?"

In her mind, the world has to **"change, or be changed"** because an **"economic system"** - meaning free-market economics - has caused environmental **"wreckage"**.

Rational eco-activists Lomborg, Shellenberger & Moore all dispute this

Source: <https://www.investors.com/politics/editorials/another-climate-alarmist-admits-real-motive-behind-warming-scare/>

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ABD 2022

Climate activist quote

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What right do UN functionaries have to determine the economic system by which *any individual country*, let alone the world, operates?

What bearing does economics have on our ever-changing climate?

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A final, thought-provoking quote

"So here we sit. The next beat of the 179-year solar retrograde cycle is due. The next beat of the 360-year Little Ice Age cycle is due. The next beat of the 1440-year ice-age cycle is due. The next beat of the 11,500-year ice-age cycle is due. The next beat of the 100,000-year ice-age cycle is due . . . and we're worried about global warming?....."

It's ludicrous to be worried about global warming."

<https://electroverse.net/the-solar-retrograde-cycle-and-little-ice-ages/>; Cap Allon, 04/12/2020.

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CLIMATE CHANGE

A Natural Phenomenon caused by:

1. Changes in the activity/ output of the sun
2. Changes in the interplanetary medium
3. Changes in the terrestrial magnetosphere
4. Changes in the Earth's axial tilt
5. Changes in the Earth's orbital eccentricity
6. Changes in the level of tectonic activity

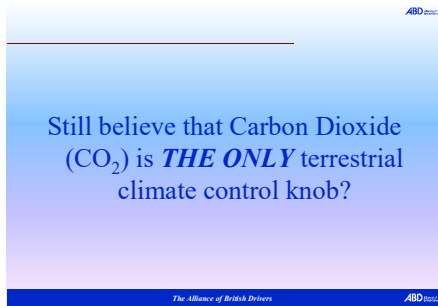
These all influence the energy absorbed by the Earth's oceans; which is the primary determinant of our climate.

The Earth is 4.7 Billion years old; Climate Change is just as old

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1. Changes in the activity/ output of the sun
 2. Changes in the interplanetary medium
 3. Changes in the terrestrial magnetosphere
 4. Changes in the Earth's axial tilt
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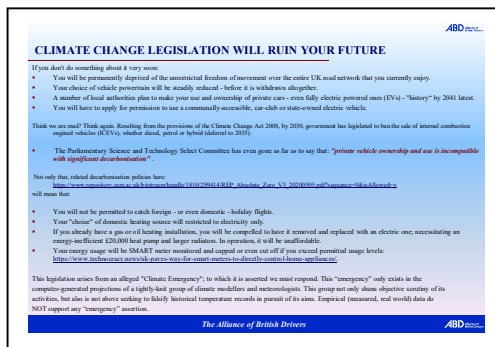


ABD

Still believe that Carbon Dioxide (CO₂) is **THE ONLY** terrestrial climate control knob?

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Self-explanatory



ABD

CLIMATE CHANGE LEGISLATION WILL RUIN YOUR FUTURE

If you don't do something about it very soon:

- You will be permanently deprived of the unrestricted freedom of movement over the entire UK road network that you currently enjoy.
- Your choice of vehicle powertrain will be steadily reduced - before it is withdrawn altogether.
- A number of local authorities plan to make your use and ownership of private cars - even fully electric powered ones (EVs) - "banned" by 2041 latest.
- You will have to apply for permission to use a communally-accessible, one-way or one-way electric vehicle.

Think we are mad? Think again. Reading from the provisions of the Climate Change Act 2009, by 2010, government has legislated to ban the sale of internal combustion engine vehicles (ICEVs), whether diesel, petrol or hybrid (defined to 2015).

- The Parliamentary Science and Technology Select Committee has even gone as far as to say that "private vehicle ownership and use is incompatible with any future decarbonisation".

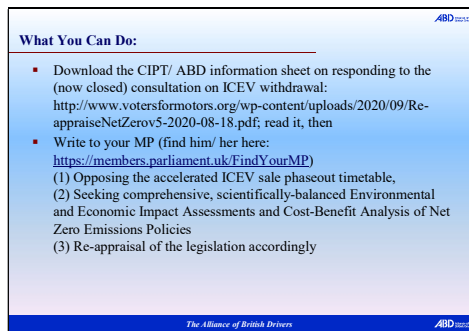
Not only that, central government policies here: http://www.comptechselectcommittee.org.uk/committees/committeesdocuments/1110-2014-1814-ABD/06_11_2010/01.pdf guarantee that it will mean that:

- You will not be permitted to catch foreign - or even domestic - holiday flights.
- Your "choice" of domestic heating sources will be restricted to electricity only.
- If you already have a gas or oil heating installation, you will be compelled to have it removed and replaced with an electric one; necessitating an energy-efficient (2000) heat pump and larger radiators. In operation, it will be unaffordable.
- Your energy usage will be SMART meter monitored and capped or even cut off if you exceed permitted usage levels. http://www.techselectcommittee.org.uk/committees/committeesdocuments/1110-2014-1814-ABD/06_11_2010/01.pdf

The legislation arises from an alleged "Climate Emergency", to which it is asserted we must respond. This "emergency" only exists in the computer-generated projections of a tightly-knit group of climate modellers and meteorologists. This group not only share objective scientific activities, but also is not above seeking to falsify historical temperature records in pursuit of its aims. Empirical (measured, real world) data do NOT support any "emergency" assertion.

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Self-explanatory



ABD

What You Can Do:

- Download the CIPT/ ABD information sheet on responding to the (now closed) consultation on ICEV withdrawal: <http://www.votersformotors.org/wp-content/uploads/2020/09/Re-appraiseNetZero5-2020-08-18.pdf>; read it, then
- Write to your MP (find him/ her here: <https://members.parliament.uk/FindYourMP>)
 - (1) Opposing the accelerated ICEV sale phaseout timetable,
 - (2) Seeking comprehensive, scientifically-balanced Environmental and Economic Impact Assessments and Cost-Benefit Analysis of Net Zero Emissions Policies
 - (3) Re-appraisal of the legislation accordingly

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Actions You can take:

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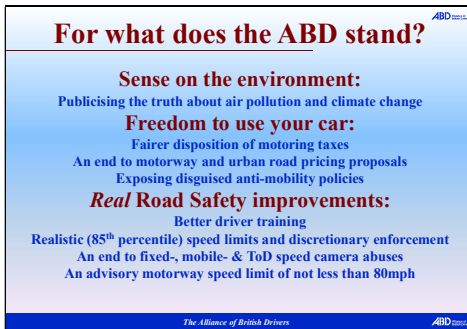
Slide 95



Slide 96



Slide 97



Slide 98

A presentation slide with a blue gradient background. It contains three questions in blue text, followed by a call to action in red text. The slide has a thin blue border and small logos in the top right and bottom right corners.

ABD 2011

Do you want a fair share of transport investment for motorists and an end to punitive road user taxation?

Are you in favour of effective road traffic laws, sensibly enforced?

Do you think road user education makes for better road safety than road user intimidation?

Then join the Alliance of British Drivers NOW.

The Alliance of British Drivers ABD 2011

Slide99

A presentation slide with a blue gradient background. It contains contact information for the Alliance of British Drivers in blue text. The slide has a thin blue border and small logos in the top right and bottom right corners.

ABD 2011

Contact the Alliance of British Drivers at:

**P.O. Box 1043,
Stockton-on-Tees,
TS19 1XG.
United Kingdom.**

Web site: <http://www.abd.org.uk>

The Alliance of British Drivers ABD 2011

Author's note: This presentation is to the best of my knowledge (as an Oxford University Natural Sciences graduate) factually correct and free from any intentional exaggerations or distortions. I was assisted by some insightful, constructive suggested additions by fellow ABD member, Dr. Duncan White, & by Brian RL Catt CEng, CPhys, MBA, MCIM.

It is a fundamental error to imagine that any scientific advance has EVER arisen from glibly accepting "consensus" thinking (a political, not scientific, concept). Copernicus, Galileo, Newton, Einstein all had to overcome scientific inertia - and at times threats of physical violence or worse - for their (then revolutionary) ideas to become accepted wisdom - sometimes long after their deaths.

If it's "consensus", it definitely isn't science. Science advances by shattering cosy, consensus thinking (i.e., groupthink) and riding roughshod over it with superior concepts, reasoning; and models that better reflect the observed behaviour of the natural universe. This is done by studying, and being guided by, empirically-collected evidence, not by falsifying evidence to shore up a preconceived, scientifically unsound "consensus" hypothesis.

If climate models don't mirror the empirical evidence, however much they are "adjusted" - which they don't, they're just plain wrong. They need to be abandoned and replaced with better ones that **model all the variables**, and so are more likely to give worthwhile projections of future climate system behaviour. Only closed minds tolerate and embrace current counter-scientific "consensus" views.

I leave others to speculate on the motives of the UN, IPCC, NASA/ NOAA personnel advancing what are best described as junk-science climate projections. Some starting points might be the following references:

1. <https://www.youtube.com/watch?v=U5weFQYBL5w&fbclid=IwAR260B9Z8G0WQeyboDAA3Eco8Fmc-9q5Fe-hsvQQN-7OknEGk2a9OGAx6EQ>
2. <https://www.investors.com/politics/editorials/another-climate-alarmist-admits-real-motive-behind-warming-scare/>
3. <https://www.investors.com/politics/editorials/climate-change-scare-tool-to-destroy-capitalism/>

Brian J. Gregory, M.A.(Oxon.), M.Sc., March 2022.