

# The Week That Was: 2019-09-21 (September 21, 2019)

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### The Science and Environmental Policy Project

**Quote of the Week** – *"When in doubt, always tell the truth. It will confuse your enemies and astound your friends!"*—Mark Twain [H/t Will Happer]

**Number of the Week: 250 Outlets**

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#### **THIS WEEK:**

**By Ken Haapala, President, Science and Environmental Policy Project (SEPP)**

**Climate Model Inflation:** According to the “Centre national de la recherche scientifique”, a French government entity billed as the largest governmental research organisation in France and the largest fundamental science agency in Europe, climate models have been underestimating the worst case for an increase in temperatures from a doubling of carbon dioxide (CO<sub>2</sub>). In a news release it announced:

*“The international climate science community is undertaking an extensive programme of numerical simulations of past and future climates. Its conclusions will contribute significantly to part one of the IPCC Sixth Assessment Report, which is expected to be published in 2021. The French scientists involved in the work, in particular at the CNRS, the CEA and Météo-France, were the first to submit their contributions, and they have now revealed the broad outlines of their findings. Specifically, their new models predict that warming by 2100 will be more severe than forecast in earlier versions. They are also making progress in describing climate at the regional level.*

*“French scientists working together in the CLIMERI-France2 platform participated in the World Climate Research Programme (CMIP6)<sup>3</sup> using two climate models, one developed by the CNRM<sup>4</sup> together with CERFACS<sup>5</sup>, and the other at the IPSL<sup>6</sup>. CMIP6 brings together over twenty climate centres around the world that have developed some thirty models.*

*“Simulations with the two new French models, as well as with models from other countries that are already available, predict that by 2100 warming will be more severe than that forecast in previous versions in 2012, especially for the most pessimistic emission scenarios. This could be explained by a more pronounced climate response to the increase in human-induced greenhouse gases than in the 2012 simulations. However, the reasons for this increased sensitivity and the degree of confidence to be attributed have yet to be assessed.*

***“In the most pessimistic scenario (SSP5 8.5 – rapid economic growth driven by fossil fuels), the rise in mean global temperature is likely to reach 6 to 7 °C by 2100, which is 1 °C higher than in previous estimates. Only one of the socio-economic scenarios (SSP1 1.9 - marked by strong international cooperation and giving priority to sustainable development) enables temperatures to remain below the 2°C global warming target, at the cost of very significant mitigation efforts and of temporarily exceeding this target during the course of the century.”*** [Boldface added. Note

that the temperatures are expressed relative to pre-industrial temperatures and that 6 to 7 °C by 2100 converts to roughly 11 to 13 °F.]

Based on atmospheric temperature trends, the models overestimate past warming. How is it that they now underestimate future warming?

No doubt politicians and the press will emphasize this scenario, which has no basis in hard evidence. Experimental evidence shows the relationship between CO<sub>2</sub> and temperature is logarithmic. A doubling of the current value of 400 parts per million (ppm) of CO<sub>2</sub> in the atmosphere to 800 ppm would require enormous amounts of fossil fuels. Observations and calculations show that a doubling of greenhouse gases such as CO<sub>2</sub> and a modest increase in water vapor corresponding to the observed rise in temperatures in the atmosphere may increase temperatures by 1 to 1.5 °C (2 to 3 °F).

The physical explanation for this sudden increase projected by the French models may be a stronger positive feedback from increased atmospheric water vapor than the feedback speculated in the 1979 Charney Report. But that Charney feedback warming is yet to be found in the atmosphere, much less a stronger one.

It appears the only justification for this sudden change is based on model simulations, which can be meaningless. For example, in the mid-1970s the US government produced models used to claim the US would run out of oil and natural gas at the end of the 20<sup>th</sup> century. Almost 20 years after models projected it would run out of oil and gas, the US is a leading producer of oil and natural gas. One can run as many simulations of such models as one wishes, but model simulations will not stop US oil and gas production.

The scientific method is based on repeated testing of assumptions (hypotheses) against physical evidence gathered by physical experiments or rigorous observations. It appears that the French climate modelers are completely abandoning the scientific method for something beyond normal science. It will be interesting whether US climate modelers go along, including the National Science Foundation's NCAR, NOAA's Geophysical Fluid Dynamics Laboratory, and NASA's Goddard Institute for Space Studies. Will they abandon the scientific method for something beyond normal science? If so, they will demonstrate they are not scientific organizations serving the interests of the American public. See links under Model Issues

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**Climate Propaganda Week:** This week there will be numerous activities to celebrate the “fight against climate change” headed by the United Nations. Global temperatures been changing for hundreds of millions of years and atmospheric carbon dioxide has changed for hundreds of millions of years. But there is no strong relationship. However, the UN is proclaiming it can stabilize temperatures by controlling CO<sub>2</sub> emissions. For evidence, the UN offers the results of speculative global climate models that fail basic tests on their ability to predict temperature trends in the atmosphere where the greenhouse effect occurs.

The week was preceded by children's climate marches in many cities globally on September 20. The attendance was not impressive. In the US, more people attend football games on a fall Saturday or Sunday than appeared at the global climate marches on Friday.

The UN is making a major push to promote fear of CO<sub>2</sub>, and its motive is becoming transparent: \$100 Billion per year into the Green Climate Fund that it controls. This will give the UN

enormous financial control around the world. It has long desired independent sources of funding, without a need to justify its actions to national governments. The Green Climate Fund would deliver what the UN desires, but the UN is yet to show it is worthy. Certainly, its politically charged summaries of reports do not motivate the general public as the UN may have expected, As discussed above, the science is becoming increasingly poor.

Increasingly, the UN seems to be relying on the young, particularly a blond girl with Nordic features and pigtails. This may invoke motherly instincts in some, but not in others such as Mr. Trump. Through its efforts, the UN is lowering its standards as an international organization of professionals. See links under Defending the Orthodoxy, Communicating Better to the Public – Use Propaganda on Children, and Communicating Better to the Public – Use Children for Propaganda.

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**Drone Attack -- Resilience:** Last week, two major oil fields in Saudi Arabia were hit by drones, which knocked out about 50% of its total production. Ten years ago, such an event would have caused a major spike in oil and gasoline prices and inflamed the world press, particularly in the US. But any alarm quickly died down.

Today, there is no shortage of oil world-wide. The US and Russia can expand if needed and Canada has enormous resources it needs to get to refineries. Also, the Saudis appear to have the ability to adjust to the damage quickly. This reliance demonstrates that although oil remains a critical resource, it is not subject to a major disruption from one incident. A main reason is that the independent oil producers involved in shale production in the US have a major impact in the world oil markets. Through competitive pressures against each other and the major producers, they have become a major influence for resilience and stable oil markets. All too often a competitive market is considered an unstable one, yet the opposite may be more correct. Interestingly, the *Wall Street Journal* had contradicting articles on the lasting importance of the drone strike. See Article # 2 and links under Energy Issues – Non-US.

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**Threatened Oceans:** Australia's Great Barrier Reef (GBR) has been frequently used as an example by those who claim that human-caused ocean warming or acidification is causing great damage to the world's oceans. Certainly, human-caused sediment is a problem, but that is neither warming nor acidification. The recent incident involving Peter Ridd and James Cook University underlines the need for marine biologists to base their findings on rigorous application of the scientific method.

Walter Starck is a University of Miami marine biologist who spent much of his 40-year plus career studying coral reefs and marine fishery ecosystems. He has been involved with several technological developments used in diving and the study of reefs. He writes:

*“While ‘quality control’ may be a useful generic label for this issue, it does not convey to the non-scientist the actual nature of the problem and few have any understanding of what constitutes quality science. In addition to replication, some other things of particular relevance to GBR research may be worth mentioning:*

- 1. Ignoring of conflicting evidence*
- 2. Misleading confidence levels and ignored uncertainties*
- 3. Selective use of data*
- 4. Improper employment of statistical methods*

5. *Use of unvalidated modelling as evidence*
6. *Undisclosed adjustments to data*
7. *Provably false claims left unaddressed even when brought to attention.*

“*Sound policy-making demands the establishment of some mechanism to provide decision makers with a well-informed critical assessment of the science on which they rely. The current approach of presenting advocacy only, bolstered by claims of authority and consensus with no mention of uncertainty or conflicting evidence is simply not good enough for either decision making or even to be accepted as valid science.*”

Starck’s history of the controversies concerning the Great Barrier Reef, which started 50 years ago with an outbreak of crown-of-thorns starfish eating coral on the reef, is a caution to those who believe exaggerations such as “this never happened before.” See links under Challenging the Orthodoxy.

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**Censorship:** In time for Climate Propaganda Week, the Australian publication “The Conversation”, claiming to provide scientific rigor with a journalistic flair, announced it is joining 170 media outlets in an initiative called Covering Climate Now. “The Conversation” stated:

*“Climate change deniers are dangerous - they don’t deserve a place on our site.”*

The effort is spearheaded by the Columbia Journalism Review and The Nation. The mission statement at the Columbia Journalism Review (CJR) states:

*“CJR’s mission is to be the intellectual leader in the rapidly changing world of journalism. It is the most respected voice on press criticism, and it shapes the ideas that make media leaders and journalists smarter about their work. Through its fast-turn analysis and deep reporting, CJR is an essential venue not just for journalists, but also for the thousands of professionals in communications, technology, academia, and other fields reliant on solid media industry knowledge.*

What constitutes knowledge in the media industry remains an unknown. At least, the CJR states its major funders. “Covering Climate Now” appears to be little more than an effort to establish a political movement with editorials such as “Turning newspapers into climate-change art” and articles on the “Climate Crisis.” See links under Censorship and

[https://www.cjr.org/covering\\_climate\\_now/](https://www.cjr.org/covering_climate_now/).

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**NBC Confessions:** NBC News has a new website titled “Climate Confessions.” It states:

*“Even those who care deeply about the planet’s future can slip up now and then. Tell us: Where do you fall short in preventing climate change? Do you blast the A/C? Throw out half your lunch? Grill a steak every week? Share your anonymous confession with NBC News.”*

There is a link where one can write a confession and where one can view the confessions of others. One may be tempted to think this is like religious confessions, such as those with the Catholic Church. But those confessions are in strict privacy between the priest and the person confessing. The public viewing of NBC’s confessions makes them appear closer to public confessions in China during the reign of Mao. See links under Expanding the Orthodoxy.

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**Number of the Week: 250 Outlets.** According to the “Covering Climate Now” website, 250 news outlets have signed up for its political effort. It is interesting to speculate how many outlets will ignore news that contradicts the claims of the climate establishment. We are in a brave new world. At least, some outlets are becoming obvious about their biases rather than subtle. See links under Communicating Better to the Public – Use Propaganda.

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### **NEWS YOU CAN USE:**

#### ***Censorship***

##### **Climate change deniers are dangerous - they don't deserve a place on our site**

By Misha Ketchell, The Conversation, Sep 16, 2019 [H/t Mark Albright]

[https://theconversation.com/climate-change-deniers-are-dangerous-they-dont-deserve-a-place-on-our-site-123164?utm\\_source=twitter&utm\\_medium=twitterbutton](https://theconversation.com/climate-change-deniers-are-dangerous-they-dont-deserve-a-place-on-our-site-123164?utm_source=twitter&utm_medium=twitterbutton)

##### **“The Conversation” gives up conversing, admits defeat on climate, bans all skeptical scientists from commenting!**

By Jo Nova, Her Blog, Sep 18, 2019

<http://joannenova.com.au/2019/09/the-conversation-gives-up-conversing-admits-defeat-on-climate-bans-all-skeptical-scientists-from-commenting/>

##### **Under seige: The Conversation pulls the weak “trust your doctor or Climate God” excuse**

By Jo Nova, Her Blog, Sep 19, 2019

<http://joannenova.com.au/2019/09/under-seige-the-conversation-pulls-the-weak-trust-your-doctor-or-climate-god-excuse/>

#### ***Challenging the Orthodoxy -- NIPCC***

##### **Climate Change Reconsidered II: Physical Science**

Idso, Carter, and Singer, Lead Authors/Editors, Nongovernmental International Panel on Climate Change (NIPCC), 2013

<https://www.heartland.org/media-library/pdfs/CCR-II/CCR-II-Full.pdf>

Summary: <http://www.nipccreport.org/reports/ccr2a/pdf/Summary-for-Policymakers.pdf>

##### **Climate Change Reconsidered II: Biological Impacts**

Idso, Idso, Carter, and Singer, Lead Authors/Editors, Nongovernmental International Panel on Climate Change (NIPCC), 2014

<http://climatechangereconsidered.org/climate-change-reconsidered-ii-biological-impacts/>

Summary: <https://www.heartland.org/media-library/pdfs/CCR-IIb/Summary-for-Policymakers.pdf>

##### **Climate Change Reconsidered II: Fossil Fuels**

By Multiple Authors, Bezdek, Idso, Legates, and Singer eds., Nongovernmental International Panel on Climate Change, April 2019

<http://store.heartland.org/shop/ccr-ii-fossil-fuels/>

Download with no charge:

<http://climatechangereconsidered.org/wp-content/uploads/2019/01/Climate-Change-Reconsidered-II-Fossil-Fuels-FULL-Volume-with-covers.pdf>

##### **Why Scientists Disagree About Global Warming**

The NIPCC Report on the Scientific Consensus

By Craig D. Idso, Robert M. Carter, and S. Fred Singer, Nongovernmental International Panel on Climate Change (NIPCC), Nov 23, 2015

<http://climatechangereconsidered.org/>

Download with no charge:

<https://www.heartland.org/policy-documents/why-scientists-disagree-about-global-warming>

### **Nature, Not Human Activity, Rules the Climate**

S. Fred Singer, Editor, NIPCC, 2008

[http://www.sepp.org/publications/nipcc\\_final.pdf](http://www.sepp.org/publications/nipcc_final.pdf)

### **Global Sea-Level Rise: An Evaluation of the Data**

By Craig D. Idso, David Legates, and S. Fred Singer, Heartland Policy Brief, May 20, 2019

<https://www.heartland.org/template-assets/documents/publications/SeaLevelRiseCCRIL.pdf>

### ***Challenging the Orthodoxy***

#### **Wrong Again: 50 Years of Failed Eco-pocalyptic Predictions**

By Myron Ebell, Steven Millloy, CEI, Sep 18, 2019 [H/t Paul DeWitt]

<https://cei.org/blog/wrong-again-50-years-failed-eco-pocalyptic-predictions>

#### **Apocalypse not! Proof that climate predictions are always wrong**

'None of the apocalyptic predictions with due dates as of today have come true'

By Staff, WND, Sep 18, 2019 [H/t Bernie Kepshire]

<https://www.wnd.com/2019/09/always-wrong-report-unveils-history-failed-global-warming-alarms/>

#### **Is the “climate crisis” a cruel hoax or tragic blunder?**

By David Wojick, CFACT, Sep 18, 2019

<https://www.cfact.org/2019/09/18/is-the-climate-crisis-a-cruel-hoax-or-tragic-blunder/>

*[SEPP Comment: It is neither. It is an honest assumption (guess) becoming a dishonest claim of fact.]*

#### **Reef Alarmists Find What They Need to Find**

By Walter Starck, Quadrant, Sep 20, 2019

<https://quadrant.org.au/opinion/doomed-planet/2019/09/reef-alarmists-find-what-they-need-to-find/>

#### **Scientist’s Confession: Climate “Models Have “Serious Flaws”... Confident Others Will Speak Up On “Fraudulent Claims”**

By P Gosselin, No Tricks Zone, Sep 14, 2019

<https://notrickszone.com/2019/09/14/scientists-confession-climate-models-have-serious-flaws-confident-others-will-speak-up-on-fraudulent-claims/>

#### **The Epidemiologist (P-value + Ecological) Fallacy Exposed (Video)**

Video, By William Briggs, His Blog, Sep 18, 2019 [H/t John Dunn]

<https://wmbriggs.com/post/28123/>

#### **If Sir David King is scared about global warming, we needn’t worry**

By Christopher Monckton of Brenchley, WUWT, Sep 17, 2019

<https://wattsupwiththat.com/2019/09/17/if-sir-david-king-is-scared-about-global-warming-we-neednt-worry/>

### ***Defending the Orthodoxy***

#### **The hard truths of climate change — by the numbers**

A set of troubling charts shows how little progress nations have made toward limiting greenhouse-gas emissions.

By Jeff Tollefson, Nature, Sep 18, 2019 [H/t Dennis Ambler]

<https://www.nature.com/immersive/d41586-019-02711-4/index.html>

#### **UN De-platforms the USA at the New York Climate Summit**

By Eric Worrall, WUWT, Sep 19, 2019

<https://wattsupwiththat.com/2019/09/19/un-de-platforms-usa-at-new-york-climate-summit/>

#### **New UN report launched to help ratchet up action to combat climate crisis**

By Staff, UN News, Sep 18, 2019 [H/t Dennis Amber]

<https://news.un.org/en/story/2019/09/1046672>

#### **Over next two weeks, New York global epicenter of climate fight**

By Issam Ahmed, New York (AFP) Sept 17, 2019

[http://www.spacedaily.com/reports/Over\\_next\\_two\\_weeks\\_New\\_York\\_global\\_epicenter\\_of\\_climate\\_fight\\_999.html](http://www.spacedaily.com/reports/Over_next_two_weeks_New_York_global_epicenter_of_climate_fight_999.html)

#### **UN climate roadshow opening in NYC**

By Craig Rucker, CFACT, Sep 18, 2019

<https://www.cfact.org/2019/09/18/un-climate-roadshow-opening-in-nyc/>

#### **World must adapt to 'inevitable' climate change, warns report**

By Marlowe Hood and Sijia Li in Beijing, Paris (AFP), Sept 10, 2019 [H/t Toshio Fujita]

<https://www.afp.com/en/news/3954/world-must-adapt-inevitable-climate-change-warns-report-doc-1k57nb2>

Link to Report: Adapt Now: A Global Call For Leadership on Climate Resilience

By Staff: Global Commission on Adaptation, 2019

[https://cdn.gca.org/assets/2019-09/GlobalCommission\\_Report\\_FINAL.pdf](https://cdn.gca.org/assets/2019-09/GlobalCommission_Report_FINAL.pdf)

“Spending \$1.8 trillion across five key areas over the next decade would not only help buffer the worst impacts of global warming but could generate more than \$7 trillion in net benefits, the report from the Global Commission on Adaptation argued.”

#### **Cutting air pollution would not cause ‘near-term spike’ in global warming**

By Robert McSweeney, Carbon Brief, Sep 18, 2019

[https://www.carbonbrief.org/cutting-air-pollution-would-not-cause-near-term-spike-in-global-warming?utm\\_campaign=RevueCBWeeklyBriefing&utm\\_medium=email&utm\\_source=Revue%20newsletter](https://www.carbonbrief.org/cutting-air-pollution-would-not-cause-near-term-spike-in-global-warming?utm_campaign=RevueCBWeeklyBriefing&utm_medium=email&utm_source=Revue%20newsletter)

Climate and air-quality benefits of a realistic phase-out of fossil fuels

By Drew Shindell and Christopher Smith, Nature, Sep 18, 2019

<https://www.nature.com/articles/s41586-019-1554-z>

#### **Scientists, students, activists plan global strike ahead of UN climate summit**

By Brooks Hays, Washington (UPI), Sep 13, 2019

<http://mail.haapala.com/interface/root#/email>

### **Hundreds of thousands turn out in New York, other major cities for climate marches**

By John Bowden, The Hill, Sep 20, 2019

<https://thehill.com/policy/energy-environment/462365-hundreds-of-thousands-turn-out-in-new-york-other-major-cities-for>

“Berlin and New York each had crowds estimated at more than 100,000,…”

### **Climate Activists Plan To Bring Traffic To A Standstill In D.C.**

By Rachel Sadon, DCist, Sep 12, 2019

<https://dcist.com/story/19/09/12/climate-activists-plan-to-bring-traffic-to-a-standstill-in-d-c/>

### ***Questioning the Orthodoxy***

#### **Relax, We’ve Already Seen the Worst of Global Warming**

By Peter Smith, Quadrant, Sep 16, 2019

<https://quadrant.org.au/opinion/doomed-planet/2019/09/relax-weve-already-seen-the-worst-of-global-warming/>

*[SEPP Comment: Doubling CO2 from 400 parts per million would require an enormous amount of fossil fuels.]*

### **An Evaluation of Misleading Media Stories**

By Donn Dears, Power For USA, Sep 17, 2019

<https://ddears.com/2019/09/17/an-evaluation-of-misleading-media-stories/>

### **Economist Lomborg: Climate Fear “Result Of 3 Decades Of Alarmist Rhetoric Based On Exaggerations And Lies”**

By P Gosselin, No Tricks Zone, Sep 18, 2019

<https://notrickszone.com/2019/09/18/economist-lomborg-climate-fear-result-of-3-decades-of-alarmist-rhetoric-based-on-exaggerations-and-lies/>

### **It was a Global Climate Picnic Day: Go on — Show us you mean it guys — cut the cord to the coal fired grid**

By Jo Nova, Her Blog, Sep 21, 2019

<http://joannenova.com.au/2019/09/global-climate-picnic-people-go-on-show-us-you-mean-it-live-off-the-grid/>

### **New Video: The Climate Prophets**

By Tony Heller, Real Climate Science, Sep 20, 2019

<https://realclimatescience.com/2019/09/new-video-the-climate-prophets/>

*[SEPP Comment: Iowa: Which is evidence – observations, or results from models used in the US National Climate Assessment?]*

### **Board of Supervisors: Albemarle County**

Guest post by Charles G. Battig, M.D., WUWT, Sep 16, 2019

<https://wattsupwiththat.com/2019/09/16/board-of-supervisors-albemarle-county/>

### ***After Paris!***

#### **China and India demand cash for climate action on eve of UN summit**

By Chloé Farand, Climate Home News, Sep 17, 2019



<https://www.climatechangenews.com/2019/09/17/china-india-demand-cash-climate-action-even-summit/>

“But in separate statements published on Tuesday, the world’s first and fourth largest emitters put the onus on rich countries to fulfil their commitments to mobilise \$100 billion per year by 2020 for developing countries to cope with the impacts of climate change.”

### **China plans 226 GW of new coal power projects: Environmental groups**

By Staff, Reuters, Sep 19, 2019

<https://www.straitstimes.com/asia/east-asia/china-plans-226-gw-of-new-coal-power-projects-environmental-groups>

“The new China projects would be more than Germany's existing installed power capacity of around 200 GW by the end of 2018.”

### ***Change in US Administrations***

#### **Embrace the 'New American Energy Era'**

By Rick Perry, Energy Secretary, The Washington Times, Sep 9, 2019

<https://www.washingtontimes.com/news/2019/sep/9/embrace-the-new-american-energy-era/>

### ***Problems in the Orthodoxy***

#### **Coal-fired powering up in China, south Asia**

By Staff, Power Engineering, Sep 18, 2019

<https://www.power-eng.com/2019/09/18/coal-fired-powering-up-in-china-south-asia/#gref>

### **Coal Is Fueling China’s Data Center Boom**

By Haley Zaremba, Oil Price.com, Sep 14, 2019

<https://oilprice.com/Energy/Coal/Coal-Is-Fueling-Chinas-Data-Center-Boom.html>

### **Climate Concerned India’s Coal Imports Surging**

Guest essay by Eric Worrall, WUWT, Sep 18, 2019

<https://wattsupwiththat.com/2019/09/18/climate-concerned-indias-coal-imports-surging/>

### ***Seeking a Common Ground***

#### **Realistic Glossary of Terms for the Climate Crisis/Climate Emergency**

By Bob Tisdale, WUWT, Sep 19, 2019

<https://wattsupwiththat.com/2019/09/19/realistic-glossary-of-terms-for-the-climate-crisis-climate-emergency/>

### ***Review of Recent Scientific Articles by CO2 Science***

#### **Elevated CO2 Improves the Nitrogen Resorption Efficiency of Red Maple**

Li, L., Manning, W. and Wang, X. 2019. Elevated CO2 increases root mass and leaf nitrogen resorption in red maple (*Acer rubrum* L.). *Forests* 10: 420; doi:10.3390/f10050420. Sep 20, 2019

<http://www.co2science.org/articles/V22/sep/a12.php>

### **Nearly Five Centuries of Streamflow for the Southern Tibetan Plateau**

Chen, F., Shang, H., Panyushkina, I.P., Meko, D.M., Yu, S., Yuan, Y. and Chen, F. 2019. Tree-ring reconstruction of Lhasa River streamflow reveals 472 years of hydrologic change on southern Tibetan Plateau. *Journal of Hydrology* 572: 169-178. Sep 19, 2019

<http://www.co2science.org/articles/V22/sep/a11.php>

### **Elevated CO<sub>2</sub> and Nitrogen Supply Both Improve Soybean Seed Yield**

Lenka, N.K., Lenka, S., Singh, K.K., Kumar, A., Aher, S.B., Yashona, D.S., Dey, P., Agrawal, P.K., Biswas, A.K. and Patra, A.K. 2019. Effect of elevated carbon dioxide on growth, nutrient partitioning, and uptake of major nutrients by soybean under varied nitrogen application levels. *Journal of Plant Nutrition and Soil Science* 182: 509-514. Sep 18, 2019  
<http://www.co2science.org/articles/V22/sep/a10.php>

### **CO<sub>2</sub>-induced Remobilization of Phosphorus in Rice**

Zhu, X.F., Zhang, X.L., Dong, X.Y. and Shen, R.F. 2019. Carbon dioxide improves phosphorus nutrition by facilitating the remobilization of phosphorus from the shoot cell wall in rice (*Oryza sativa*). *Frontiers in Plant Science* 10: 665, doi: 10.3389/fpls.2019.00665. Sep 16, 2019  
<http://www.co2science.org/articles/V22/sep/a9.php>

### ***Models v. Observations***

#### **The Weather Outlook for the Rest of the Fall and Winter [For US Pacific Northwest]**

By Cliff Mass, Weather and Climate Blog, Sep 18, 2019

<https://cliffmass.blogspot.com/2019/09/the-weather-outlook-for-rest-of-fall.html>

“The question many of you are asking is: what kind of winter do we expect?”

“The question you should also be asking: do such forecasts have much skill?”

### ***Model Issues***

#### **Flat Earth Society: Climate Model Division**

By John Robson, Climate Discussion Nexus, Sep 18, 2019

<https://climatediscussionnexus.com/2019/09/18/flat-earth-society-climate-model-division/>

Link to paper: A round Earth for climate models

By Michael J. Prather and Juno C. Hsu, PNAS, Sep 9, 2019

<https://www.pnas.org/content/early/2019/09/04/1908198116>

#### **Climate models predict bigger heat rise ahead**

By Alex Kirby, Climate News Network, September 18th, 2019 [H/t Myron Ebell]

<https://climatenewsnetwork.net/climate-models-predict-bigger-heat-rise-ahead/>

Link to report: Two French climate models consistently predict a pronounced global warming  
News Release by staff, CNRS, Sep 17, 2019

<https://www.alphagalileo.org/en-gb/Item-Display/ItemId/182921?returnurl=https://www.alphagalileo.org/en-gb/Item-Display/ItemId/182921>

[SEPP Comment: *Compounding the imaginary.*]

#### **How error propagation works with differential equations (and GCMs)**

Guest post by Nick Stokes, WUWT, Sep 16, 2019

<https://wattsupwiththat.com/2019/09/16/how-error-propagation-works-with-differential-equations-and-gcms/>

#### **Emulation, $\pm 4$ W/m<sup>2</sup> Long Wave Cloud Forcing Error, and Meaning**

Guest post by Pat Frank, WUWT, Sep 19, 2019

<https://wattsupwiththat.com/2019/09/19/emulation-4-w-m-long-wave-cloud-forcing-error-and-meaning/>

#### **Lack of Reliable Climate Change Predictions**

By Staff, Martin-Luther-Universität Halle-Wittenberg, Via GWPF, Sep 19, 2019

<https://www.thegwpf.com/lack-of-reliable-climate-change-predictions/>

Link to paper: We need more realistic climate change experiments for understanding ecosystems of the future

By Lotte Korell, et al., Global Change Biology, Aug 14, 2019

<https://onlinelibrary.wiley.com/doi/abs/10.1111/gcb.14797>

[SEPP Comment: *Question the statement: “The facts that climate change is man-made and that it will alter ecosystems are indisputable.” Climate changed long before man existed.*]

### ***Measurement Issues -- Surface***

#### **Hurricane Dorian Winds Of 185 MPH Don't Stand Up To Scrutiny**

By Paul Homewood, Not a Lot of People Know That, Sep 16, 2019

<https://notalotofpeopleknowthat.wordpress.com/2019/09/16/hurricane-dorian-winds-of-185-mph-dont-stand-up-to-scrutiny/>

#### **The Northern Hemisphere just had its warmest summer on record**

By Andrew Freedman, The Washington Post, Via Seattle Pi, Sep 16, 2019

<https://www.seattlepi.com/news/article/The-Northern-Hemisphere-just-had-its-warmest-14444242.php>

#### **GOLDSTEIN: Feds scrapped 100 years of data on climate change (Canada)**

By Lorrie Goldstein, The Province, Sep 17, 2019 [H/t WUWT]

<https://theprovince.com/opinion/columnists/goldstein-feds-scrapped-100-years-of-data-on-climate-change/wcm/45fbc5df-7c89-49e1-859e-a913a4fceed8>

“These computer simulations are part of the federal government’s ClimateData.ca website launched by Environment Minister Catherine McKenna on Aug. 15.”

“McKenna, during a recent visit to Toronto, blamed flooding at the south end of the Don Valley Parkway on man-made climate change.

“Except that area has been flooding since the glaciers retreated 12,000 years ago, long before industrial greenhouse gas emissions existed.”

#### **Climate Emergency Tour: Sudbury edition**

By John Robson, Climate Discussion Nexus, Sep 18, 2019

<https://climatediscussionnexus.com/2019/09/18/climate-emergency-tour-sudbury-edition/>

“For our readers in Sudbury, we regret to inform you that the climate emergency seems to have passed you by.”

### ***Changing Weather***

#### **The Bahamas and the Caribbean Have Withstood Hurricanes for Centuries**

Europeans came to the islands unprepared for the destructive storms, even as indigenous people understood their massive power

By Tristram Korten, Smithsonian.com, Sep 17, 2019 [H/t Dennis Ambler]

<https://www.smithsonianmag.com/history/bahamas-and-caribbean-have-withstood-hurricanes-centuries-180973157/>

#### **When Is Climate Change Just Weather? What Hurricane Dorian Coverage Mixes Up, On Purpose.**

By Roger Pielke, Forbes, Sep 4, 2019

<https://www.forbes.com/sites/rogerpielke/2019/09/04/when-is-climate-change-just-weather-what-hurricane-dorian-coverage-mixes-up-on-purpose/#6d00dff76a15>

### **Insurance Claims & Climate Claims**

Do you ask your barber if you need a haircut?

By John Robson, Climate Discussion Nexus, Sep 18, 2019

<https://climatediscussionnexus.com/videos/insurance-and-climate-change/>

Video

### **Why have our low temperatures been so HIGH this summer? [US Pacific northwest.]**

By Cliff Mass, Weather and Climate Blog, Sep 16, 2019

<https://cliffmass.blogspot.com/search?updated-max=2019-09-18T21:08:00-07:00&max-results=1>

“I think I know the answer--- warmer than normal sea surface temperatures over the eastern Pacific. Also known as the BLOB--or in this case BLOB junior.”

“What caused the BLOB? A combination of persistent high pressure that reduced vertical mixing in the ocean and southerly winds. Essentially, a highly anomalous atmospheric circulation over the North Pacific. That also can be inferred by the SST anomaly map shown in the third figure, since the north Pacific seems to be a big outlier.

“Global warming could be making a small contribution. A map of the surface temperature change from 1930 to now (from the NASA GISS site) indicates a warming of .2-.5C (.35-.9F) over the period. Some, but not all, of that temperature increase might well be associated with global warming.”

### **Aaaack, more winter rain**

By John Robson, Climate Discussion Nexus, Sep 18, 2019

<https://climatediscussionnexus.com/2019/09/18/aaaack-more-winter-rain/>

Link to news release: Oldest lake in Europe reveals more than one million years of climate history

By Staff, University of Cologne, Eurek Alert, Sep 3, 2019

[https://www.eurekalert.org/pub\\_releases/2019-09/uoc-oli090319.php](https://www.eurekalert.org/pub_releases/2019-09/uoc-oli090319.php)

### **Fires in August in 1951 in Queensland were described as “catastrophic” when CO2 was 311ppm**

By Jo Nova, Her Blog, Sep 14, 2019

<http://joannenova.com.au/2019/09/fires-in-august-in-1951-in-queensland-were-described-as-catastrophic-when-co2-was-311ppm/>

### ***Changing Seas***

#### **Tarawa! And the War Against Sea Level Rise**

By David Middleton, WUWT, Sep 20, 2019

<https://wattsupwiththat.com/2019/09/20/tarawa-and-the-war-against-sea-level-rise/>

### **5 things to know about the heat 'blobs' threatening oceans**

By Rachel Frazin, The Hill, Sep 15, 2019

<https://thehill.com/policy/energy-environment/461338-5-things-to-know-about-the-heat-blobs-threatening-oceans>

*[SEPP Comment: The weather has never changed before!]*

### ***Changing Cryosphere – Land / Sea Ice***

**Cold winters and melting Arctic ice**

By John Robson, Climate Discussion Nexus, Sep 18, 2019

<https://climatediscussionnexus.com/2019/09/18/cold-winters-and-melting-arctic-ice/>

Link to paper: Minimal influence of reduced Arctic sea ice on coincident cold winters in mid-latitudes

By Russell Blackport, et al. Nature Climate Change, Aug 12, 2019

<https://www.nature.com/articles/s41558-019-0551-4>

## **2 New Papers: Scientists Report A Rapid Deceleration Of Greenland Ice Sheet Melt Since 2013**

By Kenneth Richard, No Tricks Zone, Sep 16, 2019

<https://notrickszone.com/2019/09/16/2-new-papers-scientists-report-a-rapid-deceleration-of-greenland-ice-sheet-melt-since-2013/>

[SEPP Comment: Not a sign of a new ice age.]

### ***Changing Earth***

#### **This sulfur-spewing Russian volcano is turning sunsets purple**

By Alex Fox, Science, Sep 13, 2019 [H/t Toshio Fujita]

<https://www.sciencemag.org/news/2019/09/sulfur-spewing-russian-volcano-turning-sunsets-purple>

“Raikoke was powerful, but it didn’t deliver enough aerosols to significantly alter Earth’s climate, researchers say.”

### ***Agriculture Issues & Fear of Famine***

#### **Are Insects The New Red Meat?**

By Chuck Dinerstein, ACSH, Sep 13, 2019

<https://www.acsh.org/news/2019/09/13/are-insects-new-red-meat-14263>

### ***Lowering Standards***

#### **The BBC, the LibDems and a climate of hysteria**

By Kathy Gyngell, The Conservative Woman, Sep 17, 2019

<https://www.conservativewoman.co.uk/the-bbc-the-libdems-and-a-climate-of-hysteria/>

### ***Communicating Better to the Public – Exaggerate, or be Vague?***

#### **Faster than expected except where slower**

By John Robson, Climate Discussion Nexus, Sep 18, 2019

<https://climatediscussionnexus.com/2019/09/18/faster-than-expected-except-where-slower/>

“The conclusion? In the underlying article the authors don’t say it’s ‘worse than we thought’, more like ‘we didn’t know what to expect and we saw lots of interesting patterns.’”

#### **Faster pace of climate change is ‘scary’, former chief scientist says**

By Paul Homewood, Not a Lot of People Know That, Sep 18, 2019

<https://notalotofpeopleknowthat.wordpress.com/2019/09/18/faster-pace-of-climate-change-is-scary-former-chief-scientist-says/>

“The simple reality is that the world’s climate is not becoming more extreme, nor is it changing faster than expected. And it certainly is not ‘scary’.”

### ***Communicating Better to the Public – Make things up.***

#### **Why 100% Renewable Energy Is Less Realistic Than a Unicorn**

By David Middleton, WUWT, Sep 18, 2019

<https://wattsupwiththat.com/2019/09/18/why-100-renewable-energy-is-less-realistic-than-a-unicorn/>

Link to paper: Storage Requirements and Costs of Shaping Renewable Energy Toward Grid Decarbonization

By Micah S.Ziegle, et al. Joule, Accessed Sep 19, 2019

<https://www.sciencedirect.com/science/article/abs/pii/S2542435119303009>

[SEPP Comment: *If reliability constraints are eliminated, there is no problem.*]

**South Kesteven District Council to spend £50,000 as it declares ‘a climate emergency’**

By Paul Homewood, Not a Lot of People Know That, Sep 16, 2019

<https://notalotofpeopleknowthat.wordpress.com/2019/09/16/south-kesteven-district-council-to-spend-50000-as-it-declares-a-climate-emergency/>

***Communicating Better to the Public – Do a Poll?***

**New Survey: Half of Britons (and Most Europeans) Are Climate Sceptics**

Press Release, GWPF, Sep 16, 2019

<https://www.thegwpf.com/new-survey-half-of-briton-are-climate-sceptics/>

“As Dr Peiser explains: ‘According to the Office of National Statistics (ONS) Britons are actually becoming happier and wealthier. When they are being told that there is a climate emergency, that they must tighten their belts and that nobody seriously disagrees, people naturally assume that they are being conned.’”

**Most people in the West are still skeptics of climate change and the IPCC position**

By Jo Nova, Her Blog, Sep 17, 2019

<http://joannenova.com.au/2019/09/most-people-in-the-west-are-still-skeptics-of-climate-change-and-the-ipcc-position/>

***Communicating Better to the Public – Go Personal.***

**Greens “science” means calling you names and telling you to shut up**

By Jo Nova, Her Blog, Sep 16, 2019

<http://joannenova.com.au/2019/09/greens-science-means-calling-your-names-and-telling-you-to-shut-up/>

***Communicating Better to the Public – Use Propaganda***

**The climate crusade marches across America!**

By Larry Kummer, Fabius Maximus website, Sep 17, 2019 [H/t Mark Liebe]

<https://fabiusmaximus.com/2019/09/17/climate-change-campaign/>

Summary: The climate campaign has begun a new phase, with an acceleration in the pace of activists’ propaganda. Will this succeed?

**250 news organizations sign on to promote ‘climate crisis’**

By Jennifer Harper, The Washington Times, Sep 16, 2019

<https://www.washingtontimes.com/news/2019/sep/16/inside-the-beltway-climate-alarmists-media-forge-h/>

***Communicating Better to the Public – Use Propaganda on Children***

**Climate Hysteria: Rising Number of Children Treated For ‘Eco-Anxiety’**

By Staff, Daily Telegraph, Via GWPF, Sep 16, 2019

<https://www.thegwpf.com/crazy-adults-terrify-kids-with-their-climate-hysteria-rising-numbers-are-treated-for-eco-anxiety/>

### **Majority of teens fear climate change**

National survey takes temperature of next generation of voters  
By WND Staff, World Net Daily, Sep 16, 2019 [H/t Bernie Kepshire]  
<https://www.wnd.com/2019/09/majority-teens-fear-climate-change/>  
[SEPP Comment: Tony Heller pulling back the propaganda.]

### **Scaring children witless**

Eco-alarmists are feeding kids a daily diet of fear and doom.  
By Frank Furedi, Spiked, Sep 19, 2019 [H/t Sep 19, 2019]  
<https://www.spiked-online.com/2019/09/19/scaring-children-witless/>

### **My solution to our children's climate terror – a nice thick steak**

By Caroline Ffiske, The Conservative Woman, Sep 18, 2019 [H/t GWPF]  
<https://www.conservativewoman.co.uk/my-solution-to-our-childrens-climate-terror-a-nice-thick-steak/>

### **Psychologists Warn Parents, Climate Change Alarmists Against Causing ‘Eco-Anxiety’ in Children**

By Benjamin Fearnow, Newsweek, Sep 17, 2019  
<https://www.newsweek.com/eco-anxiety-climate-change-parent-fear-discussion-children-global-warming-depression-effects-1459731>

### ***Communicating Better to the Public – Use Children for Propaganda***

#### **Another children's crusade**

By John Robson, Climate Discussion Nexus, Sep 18, 2019  
<https://climatediscussionnexus.com/2019/09/18/another-childrens-crusade/>

### **Delingpole: Fact Checking Alarmist Kids' False Claims at Climate Hearing**

By James Delingpole, Breitbart, Sep 18, 2019  
<https://www.breitbart.com/politics/2019/09/18/delingpole-fact-checking-alarmist-kids-false-claims-at-climate-crisis-hearing/>

### **Greta Thunberg and her Legion of Hacks**

By Peter O'Brien, Quadrant, Sep 18, 2019  
<https://quadrant.org.au/opinion/doomed-planet/2019/09/greta-thunberg-and-her-legion-of-hacks/>

### **“Climate deniers are immediate threat to our children” — Ranting, Tim Flannery admits his “colossal failure”**

By Jo Nova, Her Blog, Sep 18, 2019  
<http://joannenova.com.au/2019/09/predatory-climate-deniers-immediate-threat-to-our-children-tim-flannery-rants-but-admits-his-colossal-failure/>

### **Guardian Suggests UN is Boosting Greta Thunberg to Undermine President Trump's Climate Policy**

Guest essay by Eric Worrall, WUWT, Sep 17, 2019

<https://wattsupwiththat.com/2019/09/17/guardian-suggests-un-is-boosting-greta-thunberg-to-undermine-president-trumps-climate-policy/>

### **'Young People Are Correct to Be Outraged': Seattle City Council Urges Public Schools to Let Students Join Global Climate Strike**

"Seattle Public Schools should stand with the global climate justice movement and excuse students so they can participate in the global climate strike."

By Jake Johnson, Common Dreams, Sep 17, 2019 [H/t Ken Schlichte]

<https://www.commondreams.org/news/2019/09/17/young-people-are-correct-be-outraged-seattle-city-council-urges-public-schools-let?amp>

### ***Expanding the Orthodoxy***

#### **Climate Confessions**

By Staff, NBC News, Accessed Sep 19, 2019 [H/t WUWT]

<https://www.nbcnews.com/news/specials/climate-confessions-share-solutions-climate-change-n1054791>

#### **Facing up to climate change**

Much being done to battle it, Bacow says, yet there's far more to do

By Lawrence Bacow, The Harvard Gazette, Sep 13, 2019

<https://news.harvard.edu/gazette/story/2019/09/harvard-president-sees-university-as-a-force-in-battle-against-climate-change/>

#### **It is more patriarchy**

By John Robson, Climate Discussion Nexus, Sep 18, 2019

<https://climatediscussionnexus.com/2019/09/18/it-is-more-patriarchy/>

#### **Natixis Report: Climate Change Could Derail Your Retirement**

By Staff, Newsmax. Finance, Sep 19, 2019

[https://www.newsmax.com/finance/streettalk/climate-change-retirement-natixis/2019/09/19/id/933379/?ns\\_mail\\_uid=9af78cd4-7188-4875-ba2c-e930f35496ab&ns\\_mail\\_job=DM53998\\_09192019&s=acs&dkn\\_nbr=010124n8i6cg](https://www.newsmax.com/finance/streettalk/climate-change-retirement-natixis/2019/09/19/id/933379/?ns_mail_uid=9af78cd4-7188-4875-ba2c-e930f35496ab&ns_mail_job=DM53998_09192019&s=acs&dkn_nbr=010124n8i6cg)

#### **These Are the U.S. States That Will be Most Affected by Climate Change**

By Kasmira Gander, Newsweek, under Tech & Science, Sep 16, 2019 [H/t Ken Schlichte]

<https://www.newsweek.com/these-us-states-most-affected-climate-change-1459165>

### ***Questioning European Green***

#### **Global warming: the UK's expensive and futile gesture politics – Part 3**

By Ruth Lea, The Conservative Woman, Sep 16, 2019 [H/t GWPF]

<https://www.conservativewoman.co.uk/global-warming-the-uks-expensive-and-futile-gesture-politics-part-3/>

#### **Volkswagen CEO: Climate change hysteria killing Germany's auto industry**

By Staff, World Tribune, Sep 11, 2019 [H/t GWPF]

<https://www.worldtribune.com/volkswagen-ceo-climate-change-hysteria-killing-germanys-auto-industry/>

**Global decarbonisation efforts 'stall', pushing climate goals out of reach**



By Matt Mace. Euractiv, Sep 19, 2019

<https://www.euractiv.com/section/climate-environment/news/global-decarbonisation-efforts-stall-pushing-climate-goals-out-of-reach/>

### ***Questioning Green Elsewhere***

**You spend a trillion here, a trillion there...**

By John Robson, Climate Discussion Nexus, Sep 18, 2019

<https://climatediscussionnexus.com/2019/09/18/you-spend-a-trillion-here-a-trillion-there/>

### **Fossil Fuel Divestment Has ‘Zero’ Climate Impact, Says Bill Gates**

By Staff, Financial Times, Via GWPF, Sep 17, 2019

<https://www.thegwpf.com/fossil-fuel-divestment-has-zero-climate-impact-says-bill-gates/>

### **“Green” Energy Has Increased Emissions Of The Most Powerful Greenhouse Gas**

By Paul Homewood, Not a Lot of People Know That, Sep 14, 2019

<https://notalotofpeopleknowthat.wordpress.com/2019/09/14/green-energy-has-increased-emissions-of-the-most-powerful-greenhouse-gas/>

“The reality is that ‘clean’ energy simply does not exist. To pretend that we can eliminate emissions of greenhouse gases and still maintain our lifestyles is a con trick.”

### ***The Political Games Continue***

**Democrat Climate Policies Are Ambitious But Fail The Reality Test**

By Roger Pielke, Forbes, Sep 9, 2019

<https://www.forbes.com/sites/rogerpielke/2019/09/09/democratic-candidates-climate-policy-commitments-are-incredibly-ambitious-but-fail-a-reality-test/#47238c1a6faa>

### **Trump, House GOP Agree on Key to 2020 Win: Green New Deal**

By Staff, E & E News, Via GWPF, Sep 16, 2019

<https://www.thegwpf.com/trump-house-gop-agree-on-key-to-2020-win-green-new-deal/>

### **Senate Democrats accuse administration of burying climate change reports**

By Rachel Frazin, The Hill, Sep 20, 2019

<https://thehill.com/policy/energy-environment/462295-senate-democrats-trump-administration-has-buried-dozens-of-climate>

Link to 634 page report: Peer-Reviewed Research on Climate Change by USDA Authors, January 2017-August 2019

By Staff, Senate Committee on Agriculture, Nutrition, & Forestry, Sen Debbie Stabenow, Ranking Member, Accessed Sep 10, 2019

[https://www.agriculture.senate.gov/imo/media/doc/USDA%20Climate%20Change%20Research%20Jan17%20Aug19\\_FINAL.pdf](https://www.agriculture.senate.gov/imo/media/doc/USDA%20Climate%20Change%20Research%20Jan17%20Aug19_FINAL.pdf)

### ***Litigation Issues***

**Progressive States Petition Court to Declare Trump Pre-emption Rule Unlawful**

By Marlo Lewis, Jr. CEI, Sep 20, 2019

<https://cei.org/blog/progressive-states-petition-court-declare-trump-pre-emption-rule-unlawful>

### **US seeks dismissal of tribes’ lawsuit over Keystone pipeline**

By matthew Brown, AP, Sep 10, 2019

<https://www.apnews.com/8c59f6dc01db4cb8b7b6944a1610d1a5>

### ***Cap-and-Trade and Carbon Taxes***

#### **Germany expects tough EU talks on energy taxes to counter climate change**

By Staff, Euractiv, Sep 20, 2019

<https://www.euractiv.com/section/emissions-trading-scheme/news/germany-expects-tough-eu-talks-on-energy-taxes-to-counter-climate-change/>

#### **German carbon pricing plan may cost DAX companies billions: report**

By Vera Eckert, Reuters, Sep 18, 2019

<https://uk.reuters.com/article/us-germany-carbon-companies/german-carbon-pricing-plan-may-cost-dax-companies-billions-report-idUKKBN1W31M3>

### ***Energy Issues – Non-US***

#### **Drone Strike on Saudi Arabia Knocks out 5% of Global Oil Supplies**

By Euan Mearns, Energy Matters, Sep 17, 2019

<http://euanmearns.com/drone-strike-on-saudi-arabia-knocks-out-5-of-global-oil-supplies/#more-23167>

#### **Don't Panic Over the Saudi Attack and the Oil Supply**

OPEC would have had to cut output anyway, given the dramatic increase in American production.

By Donald L. Luskin and Michael Warren, WSJ, Via GWPF, Sep 17, 2019

<https://www.thegwpf.com/dont-panic-over-the-saudi-attack-and-the-oil-supply/>

#### **Why today's renewables cannot power modern civilization**

By Dr. Lars Schernikau, WUWT, Sep 17, 2019

<https://wattsupwiththat.com/2019/09/17/why-todays-renewables-cannot-power-modern-civilization/>

#### **Will 'Video-Shaming' Follow Our Summer of 'Flight-Shaming'?**

By Mark Mills, National Review, Sep 20, 2019

<https://www.nationalreview.com/2019/09/climate-change-activism-flight-shaming-growing-internet-usage/>

*[SEPP Comment: Developing a new concept for energy use: personal jet-air-mile.]*

#### **Smart meter rollout delayed for four years (And Cost Rises Again!)**

By Paul Homewood, Not a Lot of People Know That, Sep 17, 2019

<https://notalotofpeopleknowthat.wordpress.com/2019/09/17/smart-meter-rollout-delayed-for-four-years-and-cost-rises-again/>

#### **Vistra Will Close Another Illinois Coal Plant**

By Darrell Proctor, Power Mag, Sep 16, 2019

[https://www.powermag.com/vistra-will-close-another-illinois-coal-plant/?mkt\\_tok=eyJpIjoiWVpjME1tTTNaVGs1TXpOayIsInQiOiJENTFE0XFQXhqdW1vcW9McG1TaEpWV0JQZ3c0clFpWnBGTKJoZUZnTWWhLZ2Y2Q0M3UVNXS1NrWXZVNm56TTJBMXJRZ0FaZU9yaUIGMVRGbVdmekc2RWhcL2pNKzdzUmNiVmVJQm5iaXVZdENXTHBLU2IyOTZJdnNtTWpmT2ZKM2cifQ%3D%3D](https://www.powermag.com/vistra-will-close-another-illinois-coal-plant/?mkt_tok=eyJpIjoiWVpjME1tTTNaVGs1TXpOayIsInQiOiJENTFE0XFQXhqdW1vcW9McG1TaEpWV0JQZ3c0clFpWnBGTKJoZUZnTWWhLZ2Y2Q0M3UVNXS1NrWXZVNm56TTJBMXJRZ0FaZU9yaUIGMVRGbVdmekc2RWhcL2pNKzdzUmNiVmVJQm5iaXVZdENXTHBLU2IyOTZJdnNtTWpmT2ZKM2cifQ%3D%3D)

### ***Energy Issues -- US***

#### **Renewable Energy to Overtake Natural Gas in the U.S. by 2035, Say New Studies**

The reports reveal that 2019 represents a tipping point for renewables.

By Loukia Papadopoulos, Interesting Engineering, Sep 15, 2019

<https://interestingengineering.com/renewable-energy-to-overtake-natural-gas-in-the-us-by-2035-say-new-studies>

Links to reports:

The Growing Market for Clean Energy Portfolios

By Charles Teplin, Mark Dyson, Alex Engel, and Grant Glazer, Rocky Mountain Institute, 2019 and

Prospects for Gas Pipelines in the Era of Clean Energy

By Mark Dyson, Grant Glazer, and Charles Teplin, Rocky Mountain Institute, 2019

<https://rmi.org/insight/clean-energy-portfolios-pipelines-and-plants>

[SEPP Comment: Note the similar authors who assume there is no reason for utilities to supply electricity 24-7-365!]

**Duke Energy, American Electric Power Separately Seeking to Go Net-Zero Carbon by 2050**

By Sonal Patel, Power Mag, Sep 19, 2019

[https://www.powermag.com/duke-energy-american-electric-power-separately-seeking-to-go-net-zero-carbon-by-2050/?mkt\\_tok=eyJpIjoiWWpjME1tTTNaVGs1TXpOayIsInQiOiJENTFE0XFQXhqdW1vcW9McG1TaEpWV0JQZ3c0clFpWnBGTKJoZUZnTWWhLZ2Y2Q0M3UVNXS1NrWXZVNm56TTJBMXJRZ0FaZU9yaUIGMVRGbVdmekc2RWhcL2pNKzdzUmNiVmVJQm5iaXVZdENXTHBLU2IyOTZJdnNtTWpmT2ZKM2cifQ%3D%3D](https://www.powermag.com/duke-energy-american-electric-power-separately-seeking-to-go-net-zero-carbon-by-2050/?mkt_tok=eyJpIjoiWWpjME1tTTNaVGs1TXpOayIsInQiOiJENTFE0XFQXhqdW1vcW9McG1TaEpWV0JQZ3c0clFpWnBGTKJoZUZnTWWhLZ2Y2Q0M3UVNXS1NrWXZVNm56TTJBMXJRZ0FaZU9yaUIGMVRGbVdmekc2RWhcL2pNKzdzUmNiVmVJQm5iaXVZdENXTHBLU2IyOTZJdnNtTWpmT2ZKM2cifQ%3D%3D)

### ***Washington's Control of Energy***

**Keystone XL pipeline will give US access to nearly a million barrels of oil a day: Alberta Premier**

By Julia Limitone, FOX Business, Sep 16, 2019

<https://www.foxbusiness.com/markets/canada-oil>

### ***Oil and Natural Gas – the Future or the Past?***

**New Oil & Gas Drilling: A Schematic ('Time for Tiramisu')**

By Jim Scherrer, Master Resource, Sep 17, 2019

<https://www.masterresource.org/resourceship/the-drilling-revolution-an-analogy-time-for-tiramisu/>

### ***Nuclear Energy and Fears***

**IAEA report says global power demand requires large increase in nuclear**

By Staff, WNN, Sep 11, 2019

<http://www.world-nuclear-news.org/Articles/IAEA-report-Global-power-demand-requires-large-inc>

Link to report: Energy, Electricity and Nuclear Power Estimates for the Period up to 2050, 2019 Edition

By Staff, International Atomic Energy Agency, 2019

<https://www.iaea.org/publications/13591/energy-electricity-and-nuclear-power-estimates-for-the-period-up-to-2050>

**Report outlines attributes of nuclear power**

By Staff, WNN, Sep 10, 2019

<http://www.world-nuclear-news.org/Articles/Nuclear-the-silent-giant-of-clean-energy-productio>

Link to white paper: The Silent Giant: The need for nuclear in a clean energy system  
By Staff, World Nuclear Association, 2019

<https://www.world-nuclear.org/getattachment/Our-Association/Publications/Position-statements/the-silent-giant/the-silent-giant.pdf.aspx>

### **Russia's world-first floating nuclear plant arrives in port**

By Staff, Radio Free Europe, Sep 14, 2019

<https://www.rferl.org/a/russia-s-floating-nuclear-power-plant-arrives-at-far-east-base/30164346.html>

*[SEPP Comment: Given the press attention, perhaps the USS Nautilus was not considered a nuclear submarine?]*

### **Aussie Greens: Nuclear Power is a “Dangerous Distraction” from Real Climate Action**

Guest essay by Eric Worrall, WUWT, Sep 16, 2019

<https://wattsupwiththat.com/2019/09/16/aussie-greens-nuclear-power-is-a-dangerous-distraction-from-real-climate-action/>

### **Big Plans For Small Nuclear Plants**

By Bruce Gellerman, WBUR, Boston, Sep 18, 2019

<https://www.wbur.org/earthwhile/2019/09/18/nuclear-power-miniaturization-new-technology>

### ***Alternative, Green (“Clean”) Solar and Wind***

#### **Cuomo’s pricey wind-power gift to unions**

By Post Editorial Board, New York Post, Sep 2, 2019

<https://nypost.com/2019/09/02/cuomos-pricey-wind-power-gift-to-unions/>

### **Energy & Environmental Newsletter: September 16, 2019**

By John Droz, Jr. Master Resource, Sep 16, 2019

<https://www.masterresource.org/alliance-for-wise-energy-decisions/energy-environmental-newsletter-9-16-2019/>

### **Sweden, Greta’s Home, Is Rapidly Increasing CO2 Emissions With Worse-Than-Coal Biomass Burning**

By Kenneth Richard, No Tricks Zone, Sep 19, 2019

<https://notrickszone.com/2019/09/19/sweden-gretas-home-is-rapidly-increasing-its-co2-emissions-with-worse-than-coal-biomass-burning/>

Link to one paper: The introduction and expansion of biomass use in Swedish district heating systems

By Karin Ericsson and Sven Werner, Biomass and Bioenergy, November 2016

<https://www.sciencedirect.com/science/article/pii/S0961953416302793>

### **Wind Energy and the Extinction of Eagles**

By Aynsley Kellow, Quadrant, Sep 16, 2019

<https://quadrant.org.au/magazine/2019/09/wind-energy-and-the-extinction-of-eagles/>

*[SEPP Comment: Does the “Extinction Rebellion” extend to extinction of soaring birds and bats?]*

### ***Alternative, Green (“Clean”) Energy -- Other***

#### **Ocean power: A green option failing to make waves**

By Sandra Ferrer, Brest, France (AFP) Sept 18, 2019

[http://www.terraily.com/reports/Ocean\\_power\\_A\\_green\\_option\\_failing\\_to\\_make\\_waves\\_999.html](http://www.terraily.com/reports/Ocean_power_A_green_option_failing_to_make_waves_999.html)

### ***Alternative, Green (“Clean”) Energy -- Storage***

#### **The POWER Interview: Cryogenic Energy Storage Technology**

By Darrell Proctor, Power Mag. Sep 18, 2019

[https://www.powermag.com/the-power-interview-cryogenic-energy-storage-technology/?mkt\\_tok=eyJpIjoiWWpjME1tTTNaVGs1TXpOayIsInQiOiJENTFEOXF1QXhqdW1vcW9McGlTaEpWV0JQZ3c0clFpWnBGTKJoZUZnTWwhLZ2Y2Q0M3UVNXS1NrWXZVNm56TTJBMXRJR0FaZU9yaUIGMVRGbVdmekc2RWWhcL2pNKzdzUmNiVmVJQm5iaXVZdENXTHBLU2IyOTZJdnNtTWpmT2ZKM2cifQ%3D%3D](https://www.powermag.com/the-power-interview-cryogenic-energy-storage-technology/?mkt_tok=eyJpIjoiWWpjME1tTTNaVGs1TXpOayIsInQiOiJENTFEOXF1QXhqdW1vcW9McGlTaEpWV0JQZ3c0clFpWnBGTKJoZUZnTWwhLZ2Y2Q0M3UVNXS1NrWXZVNm56TTJBMXRJR0FaZU9yaUIGMVRGbVdmekc2RWWhcL2pNKzdzUmNiVmVJQm5iaXVZdENXTHBLU2IyOTZJdnNtTWpmT2ZKM2cifQ%3D%3D)

#### **Bolivia, with huge untapped reserves, gears up for soaring lithium demand**

By Ana Frenandez, Salar De Uyuni, Bolivia (AFP) Sept 15, 2019

[http://www.spacedaily.com/reports/Bolivia\\_with\\_huge\\_untapped\\_reserves\\_gears\\_up\\_for\\_soaring\\_lithium\\_demand\\_999.html](http://www.spacedaily.com/reports/Bolivia_with_huge_untapped_reserves_gears_up_for_soaring_lithium_demand_999.html)

#### **Santee Cooper turns from coal to solar and storage**

The scandal-plagued South Carolina public utility has announced plans to procure 1 GW of solar by 2024 and install 200 MW of energy storage by 2028, along with the closure of a coal-fired power plant.

By Christian Roselund, PV Magazine, Sep 11, 2019

<https://pv-magazine-usa.com/2019/09/11/santee-cooper-turns-from-coal-to-solar-and-storage/>  
[SEPP Comment: The storage part may be a challenge.]

### ***Alternative, Green (“Clean”) Vehicles***

#### **Electric vehicles won't save us from climate change**

By Robert Bryce, The Hill, Sep 11, 2019 [H/t Cooler Heads]

<https://thehill.com/opinion/energy-environment/460496-electric-vehicles-wont-save-us-from-climate-change>

### ***California Dreaming***

#### **California, The Cradle Of Climate Jingoism**

I&I Editorial, Sep 19, 2019

<https://issuesinsights.com/2019/09/19/california-the-cradle-of-climate-jingoism/>

#### **Trump Touts Decision To End California’s Ability To Set Its Own Emission Rules**

By Chris White, Daily Caller, Sep 18, 2019 [H/t WUWT]

<https://www.dailycaller.com/2019/09/18/trump-regulations-california/>

#### **California’s Worst Heatwave**

By Tony Heller, Real Climate Science, Sep 19, 2019

<https://realclimatescience.com/2019/09/californias-worst-heatwave/>

### ***Health, Energy, and Climate***

#### **Climate Change Infects Healthcare**

By Donn Dears, Power For USA, Sep 20, 2019

<https://ddears.com/2019/09/20/climate-change-infects-healthcare/>

### ***Oh Mann!***

#### **German Climatologist Werner Kirstein Unloads: “IPCC Is To Deceive People”...Calls Michael Mann’s Chart “A Fake”**

By P Gosselin, No Tricks Zone, Sep 17, 2019

<https://notrickszone.com/2019/09/17/german-climatologist-werner-kirstein-unloads-ipcc-report-is-to-deceive-people-calls-michael-manns-chart-a-fake/>

#### **Michael E Mann, Loser**

By Mark Steyn, His Blog, Sep 17, 2019 [H/t WUWT]

<https://www.steynonline.com/9742/michael-e-mann-loser>

### ***Other Scientific News***

#### **First Water Detected on Planet in the Habitable Zone**

by Staff Writers

Garching, Germany (SPX) Sep 12, 2019

[http://www.spacedaily.com/reports/First\\_Water\\_Detected\\_on\\_Planet\\_in\\_the\\_Habitable\\_Zone\\_99\\_9.html](http://www.spacedaily.com/reports/First_Water_Detected_on_Planet_in_the_Habitable_Zone_99_9.html)

Link to paper: Water vapour in the atmosphere of the habitable- zone eight-Earth-mass planet K2-18 b

By Angelos Tsiaras, et al. Nature, Astronomy, Sep 11, 2019

[https://www.nature.com/articles/s41550-019-0878-9.epdf?referrer\\_access\\_token=G5zsaAKkCJts\\_VzHNveVRtRgN0jAjWel9jnR3ZoTv0PzolqFF\\_pfFysRaHDwEk6j0n1nJTv1Jtv8jZCkNJaRGUqTznCWQwe5Ycpo9S6JpMsj1hqpp-EZkDaroTnNWlgABfHkw2ZIDyanOitE935nqSRMhAVIJ3udKOtX7teKJB6PZG7Cf-c-z8Ps\\_EzOkXqHooqaIVT3RLsBWivp-CB9T\\_exSxhzldS70QMLUZrJQIPv3a5dmsiNbQviJA5zxB2kT8cLg50XTd1EhxJPG5jAsZV6gR5U8qA57sJcI\\_7IQWA%3D&tracking\\_referrer=www.spacedaily.com](https://www.nature.com/articles/s41550-019-0878-9.epdf?referrer_access_token=G5zsaAKkCJts_VzHNveVRtRgN0jAjWel9jnR3ZoTv0PzolqFF_pfFysRaHDwEk6j0n1nJTv1Jtv8jZCkNJaRGUqTznCWQwe5Ycpo9S6JpMsj1hqpp-EZkDaroTnNWlgABfHkw2ZIDyanOitE935nqSRMhAVIJ3udKOtX7teKJB6PZG7Cf-c-z8Ps_EzOkXqHooqaIVT3RLsBWivp-CB9T_exSxhzldS70QMLUZrJQIPv3a5dmsiNbQviJA5zxB2kT8cLg50XTd1EhxJPG5jAsZV6gR5U8qA57sJcI_7IQWA%3D&tracking_referrer=www.spacedaily.com)

#### **Extinction of Icelandic walrus coincides with Norse settlement**

Scientists used ancient DNA to show the past existence of the walrus

By Staff, NSF, Sep 17, 2019

[https://www.nsf.gov/discoveries/disc\\_summ.jsp?cntn\\_id=299211&WT.mc\\_id=USNSF\\_1](https://www.nsf.gov/discoveries/disc_summ.jsp?cntn_id=299211&WT.mc_id=USNSF_1)

### ***Other News that May Be of Interest***

#### **North American bird population fell by quarter over 50 years: study**

By Staff Writers, Washington (AFP), Sept 19, 2019

[http://www.terraviva.com/reports/North\\_American\\_bird\\_population\\_fell\\_by\\_quarter\\_over\\_50\\_years\\_study\\_999.html](http://www.terraviva.com/reports/North_American_bird_population_fell_by_quarter_over_50_years_study_999.html)

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### **BELOW THE BOTTOM LINE:**

#### **“Climate change: Rugby World Cup highlights injustice”–Silly Matt McGrath [BBC]**

By Paul Homewood, Not a Lot of People Know That, Sep 20, 2019

<https://notalotofpeopleknowthat.wordpress.com/2019/09/20/climate-change-rugby-world-cup-highlights-injustice-silly-matt-mcgrath/>

## Disaster At Union Seminary As Giant, Angry Carnivorous Plant Does Not Accept Students' Apologies

By Staff, BabylonBee.com, Sep 19, 2019

<https://babylonbee.com/news/disaster-at-union-seminary-as-giant-angry-carnivorous-plant-does-not-accept-students-apologies?sfns=mo>

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### ARTICLES

#### 1. California Can't Go Its Own Way

Trump's fuel policy intervention is right on policy and the law.

Editorial, WSJ, Sep 18, 2019

<https://www.wsj.com/articles/california-cant-go-its-own-way-11568847781>

TWTW SUMMARY: The editorial states:

*"If you haven't heard, President Trump has declared war on California, the auto industry and the world's climate. Or that's what liberals are saying about his Administration's plans to revoke California's waiver that lets it set national fuel economy rules that raise costs for consumers across the country.*

*"Mr. Trump trolled California progressives during a visit to the Golden State on Wednesday by tweeting that his Administration would yank California's Clean Air Act waiver. The Environmental Protection Agency last year foreshadowed its plans to do so when it proposed relaxing the Obama-era corporate average fuel economy (Cafe) standards.*

*"The 1970 Clean Air Act prohibits states from regulating tailpipe emissions, but it allows California to request a waiver to 'meet compelling and extraordinary conditions.' This waiver authority was intended to help California reduce tailpipe pollutants such as NOx and sulphur that contribute to smog. The LA haze in those days could be as thick as San Francisco's fog.*

*"Yet the Obama Administration in 2009 issued California a waiver to regulate greenhouse gas emissions despite the lack of legal or environmental justification. The Energy Policy and Conservation Act pre-empts state regulations of fuel economy, and CO2 emissions don't cause smog. CO2 wasn't even considered a pollutant until the Supreme Court's Massachusetts v. EPA (2007) decision.*

*"The Trump Administration now has strong economic, regulatory and constitutional reasons to revoke the waiver. California has used its waiver to impose electric car quotas that will raise costs for consumers across the country. Manufacturing an electric car costs \$12,000 more than an equivalent gas-powered vehicle. Despite generous federal and state consumer subsidies, auto makers will probably have to sell EVs below cost in California and raise prices on gas-powered cars everywhere else.*

*"The state's EV mandate doesn't even account for all CO2 emissions since it awards more credit for longer-range batteries, even though they require more energy (and fossil fuels) to manufacture. A Tesla Model S, for instance, receives almost twice as much regulatory credit as a Nissan Leaf. It also provides credit for hydrogen fuel-cell vehicles that derive energy mostly from natural gas. This scheme encourages regulatory arbitrage.*

*“Fair-weather liberal federalists are complaining that the Trump Administration is running over states’ rights. Yet the Commerce Clause prohibits states from burdening interstate commerce, and the California rules discriminate against consumers in other states. If California’s waiver is allowed to stand, its rules would become the de facto national standard.*

*“Auto makers want regulatory certainty and have urged the Trump Administration to compromise with California to avoid a prolonged legal brawl. But California progressives as usual want it their way or the highway. As Gov. Gavin Newsom declared, ‘California will prevail because we’re leaders in this space.’”*

The article concludes with a brief discussion of litigation issues and electric cars.

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## **2. Sorry Energy Consumers, Shale Won’t Save You**

Booming U.S. oil production has altered the world energy landscape, but it can’t plug a hole of the size created by the weekend attack on Saudi Arabia

By Lauren Silva Laughlin, WSJ, Sep 15, 2019

<https://www.wsj.com/articles/sorry-energy-consumers-shale-wont-save-you-11568559710>

TWTW SUMMARY: The journalist writes:

*“America’s bountiful shale deposits have displaced worries about the far larger oil reserves and production of the Middle East. This weekend was a reminder of just how crucial the region remains.*

*“Saudi Arabia’s forced shutdown of over half of its crude production, some 5% of world supply, should be short but shocking. Energy traders had become complacent about geopolitical risk in part because massive shale plays, particularly the Permian Basin in West Texas and New Mexico, have driven growth in world oil production.*

*“The region pumps some 4.4 million barrels of oil a day, according to the U.S. Energy Information Administration. Growth over the past 10 years has helped make the U.S. a significant exporter of petroleum products. Since the 2014 collapse in oil prices at the tail end of an earlier boom in shale output, which was later surpassed in volume, Saudi Arabia and other members of the Organization of the Petroleum Exporting Countries, along with nonmember Russia, have struggled to support prices and to adapt to the shale era.*

*“Reinforcing the impression that traditional oil producing heavyweights were no longer as important is shale’s nimbleness. Part of what supported prices after the 2014 price collapse was a reversal in U.S. output by the middle of 2015. Unlike voluntary cutbacks from OPEC producers, this reflected hundreds of individual, commercially-driven decisions by drillers. Shale’s short drilling cycle meant that a pullback in investment soon translated into a drop in output.*

*“The flip side of that has seen a surge in output to record levels since prices recovered, much to OPEC’s frustration. This feeds the impression that shale can save the day. But Saturday’s attack should serve as a reminder that this isn’t the case.*

*“Shale simply can’t respond to an attack on the artery of the world oil market. It can’t even make much money these days. Drillers have been under pressure from shareholders to bolster returns*



*and cut back investment. Permian-focused companies like Pioneer Natural Resources are doing just that. Investment has showed signs of slowing—active U.S. rigs hit a 17-month low in July. The most recent reading from Baker Hughes shows the number of drilling rigs down 16% from last year.”*

Other journalists have written that the Saudi crude production will resume by the end of September. This is not a long-term disruption but demonstrates that increased security is needed. See links under Energy Issues – Non-US.