

# **The Week That Was: 2019-04-13 (April 13, 2019)**

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### **The Science and Environmental Policy Project**

**Quote of the Week:** *“To be ignorant of what occurred before you were born is to remain always a child. For what is the worth of human life, unless it is woven into the life of our ancestors by the records of history?”* — Marcus Tullius Cicero

**Number of the Week:** 2 inches per century?

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#### **THIS WEEK:**

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

**Ignorance of History:** Since its Third Assessment Report (AR3 or TAR) the UN Intergovernmental Panel on Climate Change (IPCC) has tried to suppress history. It featured Mr. Mann’s infamous “hockey-stick” showing that in the Northern Hemisphere the Earth’s surface temperature was cold with some variation from 1000 AD until the late 1800s. Afterwards temperatures rose significantly with increasing human emissions of carbon dioxide (CO<sub>2</sub>). (Summary for Policymakers, p 3, 2001) The “hockey-stick” has been thoroughly discredited, but not withdrawn.

Assume for a moment that the claim is correct and the industrial revolution with its CO<sub>2</sub> emissions caused the earth to warm. Humanity is far better off than it was before. Prior to the industrial revolution, many parts of the globe were in the grips of a little ice age.

For example, extensive written records in northern European countries, especially church records, show that during several periods during the Little Ice Age, the summers were too cold and wet for crops to ripen, and famine would occur. There were manifested by outbreaks of infectious diseases such as cholera, dropsy, dysentery, and tuberculosis. Epidemics of diseases associated with neurotoxins from eating unripened grain, such as ergotism, St Anthony’s fire, occurred. As Thomas Hobbes said, life outside of society was solitary, poor, nasty, brutish, and short.

The Industrial Revolution essentially freed humanity from subsistence living. In the US and other developed countries, farming requires about 2 percent of the population and there is no shortage of food, regardless of false claims by the IPCC and its followers in the US Global Change Research Program (USGCRP).

The fear of CO<sub>2</sub> is built on long-term forecasts / projections / predictions from global climate models that cannot describe what is occurring in the atmosphere today, where the greenhouse effect occurs. The fear is amplified by an abysmal ignorance of history. Former Secretary of State John Kerry, who promotes fear of CO<sub>2</sub> and climate change, was asked in a Congressional hearing why CO<sub>2</sub> concentrations were greater before humanity existed than today? Kerry could not answer the question and tried to avoid it. The Congressman asking the question has a master’s degree in engineering from MIT and termed climate science a pseudo-science. As the quote the quote of the week indicates, we have many politicians who remain always a child.

It remains even more amazing that many politicians are promoting children, who have little or no knowledge of history, to be spokesmen for the fear of global warming / climate change. John Kerry, who has a degree in political science, has claimed that he understands climate science, a difficult subject. One wonders how he would respond if he were asked to explain the greenhouse effect, to rank the naturally occurring greenhouse gases, and to explain the interrelationship among them. See links under Defending the Orthodoxy, The Political Games Continue, Facts about agriculture. <https://www.fb.org/newsroom/fast-facts> and [https://www.ipcc.ch/site/assets/uploads/2018/07/WG1\\_TAR\\_SPM.pdf](https://www.ipcc.ch/site/assets/uploads/2018/07/WG1_TAR_SPM.pdf)

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**Changing Climate:** Paul Homewood has several interesting posts on studies of climate change that occurred before many of our political children were born. Some of the studies are ten or more years old, but bear repeating because they are ignored by the IPCC, the USGCRP, and the like. One important study is the mapping of the north coast of Greenland done by the Geological Survey of Norway. The mapping showed a number of raised beach ridges that suggest that 6,000 to 7,000 years ago, the ice cover of the Arctic Ocean was far less than today, at least in the area of Greenland, and perhaps open water extended to the North Pole.

This study, part of the International Polar Year project, also included studies of ruined settlements along the coasts, that were created by the first Inuit immigrants. Homewood followed up with a 2001 article on the “Climate and People in the Prehistoric Arctic.”

That study traces the hunting techniques of Paleoeskimos (Old Eskimos) as compared with the Indians and the recent Eskimos (Inuit) populations in Canada along with Europeans. These studies reveal that hunting strategies changed with changing Arctic climate and that a cooling was not necessarily disastrous to a hunting society even though it may be so for an agricultural society.

Also discussed are ice cores taken from Svalbard, the Norwegian archipelago in the Arctic Ocean, about the same latitude as northern Greenland. With a latitude of 74 degrees to 81 degrees North, it is well above the Arctic Circle. Its maritime climate gives a far better indication of changes in the Arctic Ocean than ice cores taken in central Greenland.

The Svalbard ice cores date back only about 1000 years, but the warmest period was around 1000 AD, warmer than today. The coldest was about 1850 with an average temperature of about minus 25 C.

Such studies indicate that the Arctic was warmer in the past than today and that the current warming is not unusual, regardless of claims by the IPCC and the USGCRP. See links under Changing Climate – Cultures & Civilizations and Changing Cryosphere – Land / Sea Ice.

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**Fear of Ocean Acidification:** One of the great fears promoted by the IPCC, the USGCRP, and others is that increasing atmospheric CO<sub>2</sub> will cause the oceans to acidify, thus prevent shellfish from forming shells. The fear is based largely on ignorance of the ocean and misleading experimentation. The pH of a solution measures the concentration of hydrogen ions compared with hydroxide ions in a solution.

A solution with a pH of 7 is neutral. A pH above 7 has a dominance of hydroxide ions and is called basic (alkaline) and a pH below 7 has a dominance of hydrogen ions and is called acidic. The scale is logarithmic, not linear. Generally, oceans are mildly alkaline (pH a bit over 8). Ocean acidification refers to a lowering of pH in the water, even though it is a misnomer. The ocean at

large will may remain above 7 because of the near-infinite buffering capacity of the limestone in the oceans

The pH of a particular section of the ocean may vary significantly depending on ocean currents, and season. Also, ocean water above CO<sub>2</sub> vents may be actually acidic (pH below 7).

There have been numerous experiments demonstrating a symbiotic relationship between corals and algae allowing corals to grow shells. Craig Idso of CO<sub>2</sub> Science reports a study that has measured the actual process. Idso writes:

*“The impact of predicted ocean acidification on coral calcification remains a matter of debate given the wide range of responses that have been observed in laboratory and field studies to date. However, early pessimism on this topic has given way to optimism in recent years as a growing body of research has demonstrated a biological control on calcification. The latest study to shed some light in this regard comes from Sevilgen et al. (2019).”*

*“Writing in the journal Science Advances, the team of seven researchers notes that coral skeleton formation (i.e., calcification) takes place within an extra-cellular calcifying medium (ECM), a "semi-enclosed compartment of a few nano- to micrometers thickness that is 'sandwiched' between the skeleton and the calcifying calcicoblastic epithelium" and "separates the ECM from a direct contact with the surrounding [seawater] environment." It is widely accepted by the scientific community that the chemical composition of the ECM is the key factor controlling calcification and that corals can biochemically modify the carbonate chemistry within the ECM by raising the pH, [carbonate and calcium] values within the ECM (relative to surrounding seawater) in order to maintain favorable rates of calcification (i.e., a higher aragonite saturation state[phrase deleted]. However, evidence of such alterations has primarily come from indirect approaches using geochemical proxies as opposed to direct measurements in the ECM itself -- until now.”*

The process involves inserting microsensors capable of measuring CO<sub>2</sub>, carbonate and calcium into the growing edge of living corals. These indicate increasing activity within the coral. This is but one more step in doing away with the myth that increasing CO<sub>2</sub> will make the oceans barren. The concept is illogical, because corals evolved during periods of much higher CO<sub>2</sub> than today. See links under Review of Recent Scientific Articles by CO<sub>2</sub> Science.

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**The Greenhouse Effect – Black Body Radiation:** TWTW had planned to present an essay on blackbody radiation – the radiation emitted by an idealized physical body that absorbs all electromagnetic radiation which strikes it, regardless of frequency or angle. The frequency of the radiation makes no difference as to the ability of the black body to absorb the radiation. A white body is a contrasting idealized concept in which all radiation hitting it is reflected.

The problem with preparing such an essay is that a black body is such an idealized concept that it has little practical value except in discussing how different greenhouse gases interfere with different electromagnetic energy emitted by the globe. The subject deals more with the atomic and molecular spectra of these gases than with black body radiation from earth.

As stated previously, our planet is an unevenly heated, spinning globe with its climate influenced greatly by the chaotic motion of two fluids of different viscosities moving against each other and over the irregular surface of the earth. The globe is far from an idealized body with a given

temperature. Using the black body radiation concept would be more confusing than illuminating. Next week's TWTW will deal more specifically on the effects of greenhouse gases on outgoing infrared radiation.

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### SEPP'S APRIL FOOLS AWARD THE JACKSON

SEPP is conducting its annual vote for the recipient of the coveted trophy, The Jackson, a lump of coal. Readers are asked to nominate and vote for who they think is most deserving, following these criteria:

- The nominee has advanced, or proposes to advance, significant expansion of governmental power, regulation, or control over the public or significant sections of the general economy.
- The nominee does so by declaring such measures are necessary to protect public health, welfare, or the environment.
- The nominee declares that physical science supports such measures.
- The physical science supporting the measures is flimsy at best, and possibly non-existent.

The seven past recipients, Lisa Jackson, Barack Obama, John Kerry, Ernest Moniz, John Holdren, Gena McCarthy and Jerry Brown are not eligible. Generally, the committee that makes the selection prefers a candidate with a national or international presence. The voting will close on June 30. Please send your nominee and a brief reason why the person is qualified for the honor to Ken@SEPP.org. Thank you.

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**Number of the Week: 2 Inches per century** is the estimated rate sea level from melting glaciers other than those on Greenland and Antarctica, from a study released by the University of Zurich published in Nature. According to reports, the researchers used a comprehensive database compiled by the World Glacier Monitoring Service maintained by a worldwide network of observers. Further, they combined these data with their own satellite analyses.

Of course, the headlines were something else. For example, Phys.org stated:

*"335 billion tons of ice lost each year."*

*"Glaciers have lost more than 9 trillion tons (that is 9,625,000,000,000 tons) of ice between 1961 and 2016, which has resulted in global sea levels rising by 27 millimeters in this period."*

The 27 mm over the 55-year period works out to 2 inches per century.

The abstract of the paper states:

*"The present glacier mass loss is equivalent to the sea-level contribution of the Greenland Ice Sheet, clearly exceeds the loss from the Antarctic Ice Sheet, and accounts for 25 to 30 per cent of the total observed sea-level rise."*

At 30% of observed sea-level rise, this would be 6.6 inches per century. At 25% of observed, 8 inches per century. These increases is what Fred Singer estimated in the 2008 report of the Nongovernmental International Panel on Climate Change (NIPCC).

These estimates are far below what James Hansen, *et al.* claimed in their paper “Ice melt, sea level rise and superstorms: evidence from paleoclimate data, climate modeling, and modern observations that 2 °C global warming could be dangerous.” In the abstract of that 2016 paper the authors claimed that:

*“We hypothesize that ice mass loss from the most vulnerable ice, sufficient to raise sea level several meters, is better approximated as exponential than by a more linear response.”*

Figure 30 of the Hansen, *et al.* paper, gave what can be called a reverse hockey-stick of mass change in ice in Greenland and the Antarctic. The IPCC, USGCRP, NOAA, and NASA-GISS need to straighten their hockey-sticks. See links under Challenging the Orthodoxy – NIPCC, Defending the Orthodoxy, and Changing Seas.

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

#### ***Commentary: Is the Sun Rising?***

**Solar slump continues – NOAA: “No indication that we are currently approaching a Maunder-type minimum in solar activity.”**

By Anthony Watts, WUWT, Apr 5, 2019

<https://wattsupwiththat.com/2019/04/05/solar-slump-continues-noaa-we-are-currently-approaching-a-maunder-type-minimum-in-solar-activity/>

Link to report: Solar Storm Risk to the North American Electric Grid

By Staff Writers, Lloyds of London, May 22, 2013

<https://www.aer.com/news-events/resource-library/solar-storm-risk-north-american-electric-grid/>

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

**Climate Change Reconsidered II: Physical Science**

Idso, Carter, and Singer, Lead Authors/Editors, 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, 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, Draft Summary for Policymakers, NIPCC, 2019

<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, 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)

## ***Challenging the Orthodoxy***

### **The Person who Set the Stage for Entire Deception of Human-Caused Global Warming (AGW) – Stephen Schneider.**

By Tim Ball, WUWT, Apr 11, 2019

<https://wattsupwiththat.com/2019/04/11/the-person-who-set-the-stage-for-entire-deception-of-human-caused-global-warming-agw-stephen-schneider/>

## **The noble corruption of climate science**

By Larry Kummer, Fabius Maximus website, Apr 11, 2019 [H/t Mark Marino]

<https://fabiusmaximus.com/2019/04/11/noble-corruption-of-climate-science/>

“Science has been politicized, distorting its results, before. It will be again. But climate science provides essential insights on several major public policy issues. Losing reliable guidance from it could have disastrous consequences. Worse, the high public profile of climate science means that a loss of public confidence in it might affect science as a whole.

“Let’s hope that the leaders of climate science come to their senses soon, despite their personal, institutional, and ideological reasons to continue on this dark path.”

## **Climate Forecasting: The Big Gap**

By David Whitehouse, GWPF, Apr 19, 2019

<https://www.thegwpf.com/climate-forecasting-the-big-gap/>

Link to one paper: Towards operational predictions of the near-term climate

By Yochanan Kushnir, Adam A. Scaife, et al. Nature Climate Change, Jan 21, 2019

<https://www.nature.com/articles/s41558-018-0359-7>

## **Falsified Hypotheses Are Rejected In Science. For Consensus Climate Science™, Failed Hypotheses Are Upheld.**

By Kenneth Richard, No Tricks Zone, Apr 11, 2019

<https://notrickszone.com/2019/04/11/falsified-hypotheses-are-rejected-in-science-for-consensus-climate-science-failed-hypotheses-are-upheld/>

*[SEPP Comment: Representatives of the Union of Concerned Scientists have repeatedly labeled hypothesis testing as “cherry-pricking.”*

## **Newest Climate Model Still Useless, German Scientist Says. And: Green Energy Turning Into An Ecological Disaster**

By P Gosselin, No Tricks Zone, Apr 6, 2019

<https://notrickszone.com/2019/04/06/newest-climate-model-still-useless-german-scientist-says-and-green-energy-turning-into-an-ecological-disaster/>

## **Skeptic German Geologist Interview Goes Viral: Greta Demos “Emotional, Not Based On Fact”...”Selective Media”**

By P Gosselin, No Tricks Zone, Apr 12, 2019

<https://notrickszone.com/2019/04/12/skeptic-german-geologist-interview-goes-viral-greta-demos-emotional-not-based-on-fact-selective-media/>

## **Inconvenient stumps**

By Anthony Watts, WUWT, Apr 12, 2019

<https://wattsupwiththat.com/2019/04/12/inconvenient-stumps/>

## ***Defending the Orthodoxy***

### **Thousands of scientists sign letter backing youth climate change protests**

By Joh Bowden, The Hill, Apr 12, 2019

<https://thehill.com/policy/energy-environment/438656-thousands-of-scientists-sign-letter-backing-youth-climate-change>

Link to letter: Concerns of young protesters are justified

By Gregor Hagedorn, et al. Science, Apr 12, 2019

<https://science.sciencemag.org/content/364/6436/139.2>

## **In Australia Climate obedience must be 100%**

By Jo Nova, Her Blog, Apr 12, 2019

<http://joannenova.com.au/2019/04/in-australia-climate-obedience-must-be-100/>

## **Ice melt, sea level rise and superstorms: evidence from paleoclimate data, climate modeling, and modern observations that 2 C global warming could be dangerous**

By James Hansen, Makiko Sato, Paul Hearty, Reto Ruedy, Maxwell Kelley, Valerie Masson-Delmotte, Gary Russell, George Tselioudis, Junji Cao, Eric Rignot, Isabella Velicogna, Blair Tormey, Bailey Donovan, Evgeniya Kandiano, Karina von Schuckmann, Pushker Kharecha, Allegra N. LeGrande, Michael Bauer, and Kwok-Wai Lo, Atmospheric Chemistry and Physics, EGU, March 22, 2016

<https://www.atmos-chem-phys.net/16/3761/2016/acp-16-3761-2016.pdf>

## **New England Curtails amid World Natural Gas Boom**

By Steve Goreham, Master Resource, Apr 9, 2019

<https://www.masterresource.org/natural-gas-politics/world-natural-gas-usage-soars-but-curtailed-in-new-england/>

Link to report: Northeastern Regional Assessment of Strategic Electrification

By Staff Writers, Northeast Energy Efficiency Partnerships, Inc. (NEEP), July 2017

<https://neep.org/sites/default/files/Strategic%20Electrification%20Regional%20Assessment.pdf>

“Strategic electrification means powering end-uses with electricity instead of fossil fuels in a way that increases energy efficiency and reduces pollution, while lowering costs to customers and society, as part of an integrated approach to deep decarbonization.”

## **Minnesotan Green New Deal Bill to Ban Fossil Fuel, Home Heating, Capitalism...**

Guest essay by Eric Worrall, WUWT, Apr 13, 2019

<https://wattsupwiththat.com/2019/04/13/minnesotan-green-new-deal-bill-to-ban-fossil-fuel-home-heating-capitalism/>

Link to article Minnesota Introduces Bold New Climate Change Bill Crafted By Teens

By Brian Kahn, Gizmodo, Apr 13, 2019

<https://www.gizmodo.com.au/2019/04/minnesota-introduces-bold-new-climate-change-bill-crafted-by-teens/>

## ***Questioning the Orthodoxy***

### **Boeing, Capt. Sullenberger & Our Relationship To Technology**

By Chuck Dinerstein, ACSH, Apr 10, 2019

<https://www.acsh.org/news/2019/04/10/boeing-capt-sullenberger-our-relationship-technology-13945>

### **We Really Don't Know Clouds At All**

By John Hinderaker, Power Line, Apr 8, 2019

<https://www.powerlineblog.com/archives/2019/04/we-really-dont-know-clouds-at-all.php>

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

#### **China's Mammoth Coal Industry Gets Bigger, Crowding Out Imports**

By Staff Writers, Bloomberg, Apr 9, 2019

<https://www.bloomberg.com/news/articles/2019-04-09/china-s-mammoth-coal-industry-gets-bigger-crowding-out-imports>

#### **UK set to miss carbon emissions targets into mid-2030s**

By Chris Ogden, Air Quality News, Apr 11, 2019 [H/t GWPF]

<http://airqualitynews.com/2019/04/11/uk-set-to-miss-carbon-emissions-targets-into-mid-2030s/>

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

#### **Skeptics press White House to keep proposed climate panel independent**

White House debates whether to use independent or federal scientists for climate panel

By Valerie Richardson, The Washington Times, Apr 8, 2019

<https://www.washingtontimes.com/news/2019/apr/8/presidential-committee-climate-security-must-be-in/>

#### **Several agencies refusing to take part in Trump's committee to reassess climate science: report**

By Michael Burke, The Hill, Apr 8, 2019

<https://thehill.com/homenews/administration/437967-several-agencies-refusing-to-take-part-in-trumps-committee-to>

“The Department of Defense, the State Department, the Environmental Protection Agency and the Office of the Director of National Intelligence are among the agencies that have not yet offered experts to the White House for the initiative, according to the [Washington] Post.”

#### **Trump on Wind Power's Problems (cancer too)**

By Sherri Lange, Master Resource, Apr 11, 2019

<https://www.masterresource.org/windpower-problems/trump-on-wind-lange/>

### ***Social Benefits of Carbon***

#### **The Case For a Green 'No Deal'**

By Steve Milloy, WSJ, Via GWPF, Apr 12, 2019

<https://www.thegwpf.com/the-case-for-a-green-no-deal/>

#### **Carbon Dioxide Fertilization Greening Earth, Study Finds**

By Staff Writers, NASA, Apr 26, 2016

<https://www.nasa.gov/feature/goddard/2016/carbon-dioxide-fertilization-greening-earth>

Link to paper: Greening of the Earth and its drivers

By Zaichun Zhu, Shilong Piao, and Ning Zeng, Nature Climate Change, Apr 25, 2016

<https://www.nature.com/articles/nclimate3004>

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

Environmental trade war! Macron REFUSES to back US-EU deal over climate change  
French President Emmanuel Macron has snubbed trade talks between Brussels and the US over Donald Trump 's dismissal of climate change policies.

By Carly Read, Express, UK, Apr 11, 2019

<https://www.express.co.uk/news/politics/1113118/emmanuel-macron-france-climate-change-agreement-US-EU-donald-trump-brexid>

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

#### **Thermoregulation of Bird Body Temperature by Reflecting Near-infrared Radiation**

Medina, I., Newton, E., Kearney, M.R., Mulder, R.A., Porter, W.P. and Stuart-Fox, D. 2018.

Reflection of near-infrared light confers thermal protection in birds. *Nature Communications* 9: 3610, DOI: 10.1038/s41467-018-05898-8. Apr 12, 2019

<http://www.co2science.org/articles/V22/apr/a8.php>

“Without the incorporation of this thermoregulatory ability, model predictions will *overestimate* the impacts of future warming on birds, and quite possibly many other animal species as well.”

#### **Proof of a Biologic Control on Coral Calcification**

Sevilgen, D.S., Venn, A.A., Hu, M.Y., Tambutté, E., de Beer, D., Planas-Bielsa, V. and Tambutté, S. 2019. Full in vivo characterization of carbonate chemistry at the site of calcification in corals.

*Science Advances* 5: eaau7447. Apr 11, 2019

<http://www.co2science.org/articles/V22/apr/a7.php>

#### **54 Years of Snowfall Trends in China**

Xuejin, T., Zhenni, W., Xingmin, M., Peng, G., Guangju, Z., Wenyi, S. and Chaojun, G. 2019.

Spatiotemporal changes in snow cover over China during 1960-2013. *Atmospheric Research* 218: 183-194. Apr 10, 2019

<http://www.co2science.org/articles/V22/apr/a6.php>

#### **The Unlikelihood of Climate Refugees Driven By Future Sea Level Rise**

Esteban, M., Jamero, M.L., Nurse, L., Yamamoto, L., Takagi, H., Thao, N.D., Mikami, T., Kench, P., Onuki, M., Nellas, A., Crichton, R., Valenzuela, V.P., Chadwick, C., Avelino, J.E., Tan, N. and Shibayama, T. 2019. Adaptation to sea level rise on low coral islands: Lessons from recent events.

*Ocean and Coastal Management* 168: 35-40. Apr 8, 2019

<http://www.co2science.org/articles/V22/apr/a5.php>

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

#### **Validating MODTRAN for Climate Studies**

By Ed Caryl, No Tricks Zone, Aug 11, 2012

<http://notrickszone.com/2012/08/11/validating-modtran-for-climate-studies/>

Link to MODTRAN Infrared Light in the Atmosphere

By Staff, University of Chicago, Accessed Apr 2, 2019

<http://climatemodels.uchicago.edu/modtran/>

### ***Model Issues***

#### **A Simple Model of the Atmospheric CO2 Budget**

By Roy Spencer, His Blog, Apr 11, 2019

<http://www.drroyspencer.com/2019/04/a-simple-model-of-the-atmospheric-co2-budget/>

### ***Changing Weather***

#### **Mid-April Blizzard to Clobber the Upper Midwest**

By Roy Spencer, His Blog, Apr 8, 2019

<http://www.drroyspencer.com/2019/04/mid-april-blizzard-to-clobber-the-upper-midwest/>

“The energy for such intense cyclones comes from the strong temperature contrast between two air masses. For example, by late Wednesday the temperatures in Nebraska will range from the 70s in the southeast to the 20s in the northwest, simultaneously feeding both blizzard conditions and a severe thunderstorm threat within the state.”

#### **Bountiful Precipitation and Full Reservoirs in California**

By Cliff Mass, Weather and Climate Blog, Apr 8, 2019

<https://cliffmass.blogspot.com/2019/04/bountiful-precipitation-and-full.html>

#### **Analysis Of 7 California Stations Shows No Precipitation Trend Change**

By Kirye and P. Gosselin, No Tricks Zone, Apr 7, 2019

<https://notrickszone.com/2019/04/07/analysis-of-7-california-stations-shows-no-precipitation-trend-change/>

#### **New Paper Accepted: Normalised Insurance Losses from Australian Natural Disasters: 1966-2017**

By Roger Pielke Jr. His Blog, Apr 12, 2019

<https://rogerpielkejr.com/2019/04/12/new-paper-accepted-normalised-insurance-losses-from-australian-natural-disasters-1966-2017/>

### ***Changing Climate***

#### **If CO2 Caused Mid-Pliocene Warming, What Caused late-Pliocene Cooling? You Guessed!**

By Paul Homewood, Not a Lot of People Know That, April 7, 2019

<https://notalotofpeopleknowthat.wordpress.com/2019/04/07/if-co2-caused-mid-pleistocene-warming-what-caused-late-pleistocene-cooling-you-guessed/>

#### **Study shows arctic warming contributes to drought**

By Staff Writers, Laramie WY (SPX), Apr 08, 2019

[http://www.terraily.com/reports/Study\\_shows\\_arctic\\_warming\\_contributes\\_to\\_drought\\_999.html](http://www.terraily.com/reports/Study_shows_arctic_warming_contributes_to_drought_999.html)

Link to paper: Mid-latitude net precipitation decreased with Arctic warming during the Holocene

By Cody C. Routson, Nature, Mar 27, 2019

<https://www.nature.com/articles/s41586-019-1060-3>

[SEPP Comment: Contradicts claims that warming will cause more severe storms in the mid Latitudes.]

### ***Changing Climate – Cultures & Civilizations***

#### **Climate and People in the Prehistoric Arctic**

By Paul Homewood, Not a Lot of People Know That, Apr 10, 2019

<https://notalotofpeopleknowthat.wordpress.com/2019/04/10/climate-and-people-in-the-prehistoric-arctic/#more-38711>

### ***Changing Seas***

#### **Melting Glaciers To Drown Us (At 2 Inches A Century!)**

By Paul Homewood, Not a Lot of People Know That, Apr 8, 2019

<https://notalotofpeopleknowthat.wordpress.com/2019/04/08/38869/>

Link to article: Melting glaciers causing sea levels to rise at ever greater rates  
Press release, University of Zurich, Phys.org, Apr 8, 2019

<https://phys.org/news/2019-04-glaciers-sea-greater.html>

Link to paper: Global glacier mass changes and their contributions to sea-level rise from 1961 to 2016

By M Zemp, et al. Nature, Apr 8, 2019

<https://www.nature.com/articles/s41586-019-1071-0>

“Glaciers have lost more than 9 trillion tons (that is 9,625,000,000,000 tons) of ice between 1961 and 2016, which has resulted in global sea levels rising by 27 millimeters in this period.”

“335 billion tons of ice lost each year.”

### **Stunning discovery offers glimpse of minutes following 'dinosaur-killer' Chicxulub impact**

By Staff Writers, Lawrence KS (SPX), Apr 08, 2019

[http://www.spacedaily.com/reports/Stunning\\_discovery\\_offers\\_glimpse\\_of\\_minutes\\_following\\_dinosaur\\_killer\\_Chicxulub\\_impact\\_999.html](http://www.spacedaily.com/reports/Stunning_discovery_offers_glimpse_of_minutes_following_dinosaur_killer_Chicxulub_impact_999.html)

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

#### **Deciphering Svalbard's climate history**

By Paul Homewood, Not a Lot of People Know That, Apr 11, 2019

<https://notalotofpeopleknowthat.wordpress.com/2019/04/11/deciphering-svalbards-climate-history/>

[SEPP Comment: Links to a 2011 report on results from ice cores.]

### **Less Ice In Arctic Ocean 6000-7000 Years Ago**

By Paul Homewood, Not a Lot of People Know That, Apr 9, 2019

<https://notalotofpeopleknowthat.wordpress.com/2019/04/09/less-ice-in-arctic-ocean-6000-7000-years-ago/>

### **Green fans, born to be scammed. Finally, jail for a \$54m fake green energy ponzi schemer**

By Jo Nova, Her Blog, Apr 12, 2019

<http://joannenova.com.au/2019/04/green-fans-born-to-be-scammed-finally-jail-for-a-54m-fake-green-energy-ponzi-schemer/>

### ***Changing Earth***

#### **The solid Earth breathes**

By Staff Writers, Boulder CO (SPX), Apr 08, 2019

[http://www.terraily.com/reports/The\\_solid\\_Earth\\_breathes\\_999.html](http://www.terraily.com/reports/The_solid_Earth_breathes_999.html)

Link to paper: Carbon cycling at the Sunda margin, Indonesia: A regional study with global implications

By House, Rebut & Hilton, Geology, Mar 22, 2019

<https://pubs.geoscienceworld.org/gsa/geology/article-abstract/569569/carbon-cycling-at-the-sunda-margin-indonesia-a?redirectedFrom=fulltext>

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

**Staggering Human Success...Fake Disaster Claims Exposed: Grain Production QUADRUPLES While Population Doubles!**

Climate disaster? Grain production almost quadrupled worldwide while the population doubled over past 60 years!

By Michael Krueger, (Translated/ edited by P Gosselin), No Tricks Zone, Apr 10, 2019

<https://notrickszone.com/2019/04/10/staggering-human-success-fake-disaster-claims-exposed-grain-production-quadruples-while-population-doubles/>

### ***Lowering Standards***

**White House eyes nuclear weapons expert to lead challenge to climate science**

By Scott Waldman, E&E News, Science Mag, Apr 12, 2019 [H/t WUWT]

<https://www.sciencemag.org/news/2019/04/white-house-eyes-nuclear-weapons-expert-lead-climate-review>

*[SEPP Comment: The flagship publication of AAAS continues to farm out its editorials on key science issues to an environmental newspaper.]*

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

**Has Netflix's Our Planet hidden the real cause of walrus deaths?**

By Andrew Montford, The Spectator, Apr 9, 2019

<https://blogs.spectator.co.uk/2019/04/has-netflixs-our-planet-hidden-the-real-cause-of-walrus-deaths/>

**Public Are Being “Misled” By David Attenborough’s New Netflix Show**

Press Release, GWPF, Apr 9, 2019

<https://www.thegwpf.com/public-are-being-misled-by-attenboroughs-new-netflix-show/>

**Attenborough’s Netflix Nonsense**

By Paul Homewood, Not a Lot of People Know That, Apr 8, 2019

<https://notalotofpeopleknowthat.wordpress.com/2019/04/08/attenboroughs-netflix-nonsense/>

**Attenborough’s Walrus Climate Porn**

By Paul Homewood, Not a Lot of People Know That, Apr 8, 2019

<https://notalotofpeopleknowthat.wordpress.com/2019/04/08/attenboroughs-walrus-climate-porn/>

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

**The Extreme Politicization of the News Media May Have Started on Climate, but Is Now Spreading to Larger Political Subjects in the US**

By Alan Carlin, Carlin Economics and Science, Apr 13, 2019

<http://www.carlineconomics.com/archives/4949>

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

**Germans Unable To Pay Power Bills...”Electricity Prices Have More Than Doubled”... “344,000 Households Cut Off”**

By P Gosselin, No Tricks Zone, Apr 9, 2019

<https://notrickszone.com/2019/04/09/germans-unable-to-pay-power-bills-electricity-prices-have-more-than-doubled-344000-households-cut-off/>

**As end looms for coal, German mining region shifts right**

By Joseph Nasr, Reuters, Apr 11, 2019

<https://www.reuters.com/article/us-germany-politics-coal/as-end-looms-for-coal-german-mining-region-shifts-right-idUSKCN1RN0PD>

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

#### **New Paper: Risk Of Poverty, Lower Incomes, Increased Energy Costs ‘Directly Linked With Renewable Energies’**

By P Gosselin, No Tricks Zone, Apr 8, 2019

<https://notrickszone.com/2019/04/08/new-paper-risk-of-poverty-lower-incomes-increased-energy-costs-directly-linked-with-renewable-energies/>

#### **This Destructive Green Fantasy**

Climate change good intentions are causing grave harm.

By Donna Lamframboise, Big Picture News, Apr 10, 2019

<https://nofrackingconsensus.com/2019/04/10/widespread-destructive-fantasy-is-a-tantalizing-shade-of-green/>

Link to earlier report: Germany’s Solar Cell Promotion: An Unfolding Disaster

By Frondel, Schmidt and Vance, Ruhr Economic Papers, July 2012

[https://web.archive.org/web/20170810025544/http://en.rwi-essen.de/media/content/pages/publikationen/ruhr-economic-papers/REP\\_12\\_353.pdf](https://web.archive.org/web/20170810025544/http://en.rwi-essen.de/media/content/pages/publikationen/ruhr-economic-papers/REP_12_353.pdf)

#### **Australia’s wannabee PM thinks electric cars get charged in 8 -10 minutes**

By Jo Nova, Her Blog, Apr 9, 2019

<http://joannenova.com.au/2019/04/australias-wannabee-pm-thinks-electric-cars-get-charged-in-8-10-minutes/>

#### **Green fans, born to be scammed. Finally, jail for a \$54m fake green energy ponzi schemer**

By Jo Nova, Her Blog, Apr 12, 2019

<http://joannenova.com.au/2019/04/green-fans-born-to-be-scammed-finally-jail-for-a-54m-fake-green-energy-ponzi-schemer/>

### ***Green Jobs***

#### **Audi’s New Electric-Car Factory Goes Green,**

By Eric Adams, Wired, Apr 4, 2019

<https://www.wired.com/story/audi-e-tron-green-factory/>

“And since then, the company has committed to making its production facilities carbon-neutral by 2030, even if it’s manufacturing internal combustion engines inside them.”

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

#### **Watch Incoherent John Kerry Get Destroyed Over His Bogus Climate Change Claims**

By Katie Pavlich, Townhall, Apr 9, 2019

<https://townhall.com/tipsheet/katiepavlich/2019/04/09/watch-incoherent-john-kerry-get-destroyed-over-his-bogus-climate-change-claims-n2544503>

#### **Kerry goes after Trump over climate on Capitol Hill**

By Rebecca Beitsch, The Hill, Apr 9, 2019

<https://thehill.com/policy/energy-environment/438084-kerry-goes-after-trump-over-climate-on-capitol-hill>

#### **CO2 Innocent - John Kerry's Pseudo-Science Exposed**

By Geoff, The Australian Climate Sceptics Blog, Apr 11, 2019

<http://theclimatescepticsparty.blogspot.com/2019/04/co2-innocent-john-kerrys-pseudo.html>

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

#### **Canada's Carbon Tax Will Kill People**

'Winter mortality is lower when the price of heating is lower': new research report.

By Donna Lamframboise, Big Picture News, Apr 8, 2019

<https://nofrackingconsensus.com/2019/04/08/canadas-carbon-tax-will-kill-people/>

### ***Subsidies and Mandates Forever***

#### **Lawmakers warming to green power mandates**

By Geof Koss, E&E News reporter, Apr 12, 2019

<https://www.eenews.net/eedaily/2019/04/12/stories/1060154669>

### ***EPA and other Regulators on the March***

#### **EPA advisory board softens criticism of PM research summary**

Sean Reilly, E&E News reporter, Apr 11, 2019

<https://www.eenews.net/eenewspm/2019/04/11/stories/1060154553>

Link to Report: EPA-CASAC-19-002

By Dr. Louis Anthony Cox, Jr., Chair, Clean Air Scientific Advisory Committee, Apr 11, 2019

[https://www.eenews.net/assets/2019/04/11/document\\_pm\\_01.pdf](https://www.eenews.net/assets/2019/04/11/document_pm_01.pdf)

### ***Energy Issues – Australia***

#### **'Unprecedented': Energy operator in daily fight to keep lights on in Australia**

By Paul Homewood, Not a Lot of People Know That, Apr 8, 2019

<https://notalotofpeopleknowthat.wordpress.com/2019/04/08/unprecedented-energy-operator-in-daily-fight-to-keep-lights-on-in-australia/>

"AEMC chief Anne Pearson talks about investment in more generation, but investment in renewables will only make matters worse. They are the problem, not the solution.

"She also displays the same apathetic attitude to future problems, as we see in the UK with our own National Grid. They are operating to a political, climate agenda, which does not allow them to voice the real problems or criticise their masters' renewable policies."

#### **Electric cars are already causing some grid failures in Australia**

By Jo Nova, Her Blog, Apr 10, 2019

<http://joannenova.com.au/2019/04/electric-cars-are-already-causing-some-grid-failures-in-australia/#more-63521>

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

#### **Utilities Promise Future Savings While Pushing Rate Hikes Today**

By H Sterling Burnett, The Heartland Institute, Apr 12, 2019

<https://www.heartland.org/news-opinion/news/utilities-promise-future-savings-while-pushing-rate-hikes-today>

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

#### **Trump signs orders to speed up energy projects**

The president is trying to make it harder for states to block pipelines and other energy projects due to environmental concerns.

By Staff Writers, AP, Apr 20, 2019

<https://www.nbcnews.com/politics/donald-trump/trump-signs-orders-speed-energy-projects-n993236>

## **Administration Takes on Anti-Infrastructure Misuse of Clean Water Act**

By Ben Lieberman, CEI, Apr 12, 2019

<https://cei.org/blog/administration-takes-anti-infrastructure-misuse-clean-water-act>

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

### **One Question Remains as the US Moves Closer to Drilling in ANWAR: How Much Oil Is There?**

By Michael Bastasch, Daily Caller, Apr 7, 2019

<https://www.dailycaller.com/2019/04/07/anwr-alaska-oil-drilling/>

## **Infographic: More Than \$32 Billion Being Invested in Appalachian Basin Pipelines,**

By Nicole Jacobs and Dan Alfaro, Energy in Depth, Feb 28, 2019

<https://www.energyindepth.org/infographic-more-than-32-billion-being-invested-appalachian-basin-pipelines/>

## **Colorado Democrats Pass Bill To Crack Down On A Pillar Of State's Economy — Oil And Gas Drilling**

By Michael Bastasch, Daily Caller, Apr 3, 2019 [H/t WUWT]

<https://www.dailycaller.com/2019/04/03/colorado-oil-gas-polis-desk/>

## **Earthquakes linked to fracking in China**

By Brooks Hays, Washington DC (UPI) Apr 05, 2019

[http://www.oilgasdaily.com/reports/Earthquakes\\_linked\\_to\\_fracking\\_in\\_China\\_999.html](http://www.oilgasdaily.com/reports/Earthquakes_linked_to_fracking_in_China_999.html)

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

### **South Australia's latest green energy scam – the floundering tower of power**

Only the Australian government, the Australian media, and Nature Energy can believe it possible to build a plant at half the cost and produce three times more electricity than what it actually does.

Guest opinion by Albert Parker, WUWT, Apr 6, 2019

<https://wattsupwiththat.com/2019/04/06/south-australias-latest-green-energy-scam-the-floundering-tower-of-power/>

## **AWEA Misinformation**

By Donn Dears, Power For USA, Apr 12, 2019

<https://ddears.com/2019/04/12/awea-misinformation/>

## **Energy & Environmental Newsletter: April 8, 2019**

By John Droz, Master Resource, Apr 8, 2019

<https://www.masterresource.org/alliance-for-wise-energy-decisions/energy-environmental-newsletter-april-8-2019/>

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

### **Hydrogen: Tomorrow's Fuel of Choice?**

By Donn Dears, Power For USA, Apr 9, 2019

<https://ddears.com/2019/04/09/hydrogen-tomorrows-fuel-of-choice/>

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

### **Battery Foolishness in Florida**

By Norman Rogers, American Thinker, Apr 9, 2019

[https://www.americanthinker.com/articles/2019/04/battery\\_foolishness\\_in\\_florida.html](https://www.americanthinker.com/articles/2019/04/battery_foolishness_in_florida.html)

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

**Electric car battery with 600 miles of range? This startup claims to have done it**

Switzerland’s Innolith says it has made a major battery breakthrough, but there’s reason to be skeptical

By Andrew Hawkins, The Verge, Apr 4, 2019

<https://www.theverge.com/2019/4/4/18293989/innolith-ev-battery-breakthrough-lithium-ion>

**Enthusiastic man in EV saves 6700L of fuel but loses 3 years**

By Jo Nova, Her Blog, Apr 9, 2019

<http://joannenova.com.au/2019/04/enthusiastic-man-in-ev-saves-6700l-of-fuel-but-loses-3-years/>

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

**Villanova University Presents 2019 Praxis Award in Professional Ethics to Climate Change Pioneer Michael E. Mann, PhD**

By Charles the Moderator, WUWT, Apr 12, 2019

<https://wattsupwiththat.com/2019/04/12/villanova-university-presents-2019-praxis-award-in-professional-ethics-to-climate-change-pioneer-michael-e-mann-phd/>

### ***Environmental Industry***

**Nebraska Flooding: When the Government Cares More about Birds than People**

By Joe Herring, American Thinker, Apr 10, 2019

[https://www.americanthinker.com/articles/2019/04/nebraska\\_flooding\\_when\\_the\\_government\\_cares\\_more\\_about\\_birds\\_than\\_people.html](https://www.americanthinker.com/articles/2019/04/nebraska_flooding_when_the_government_cares_more_about_birds_than_people.html)

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

**CBD And THC - The Only Difference Is One Chemical Bond**

By Josh Bloom, ACSH, Apr 8, 2019

<https://www.acsh.org/news/2019/04/08/cbd-and-thc-only-difference-one-chemical-bond-13937>

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

**Fake Academe: Fined \$ 50.1 Million**

By Kip Hansen, WUWT, Apr 4, 2019

<https://wattsupwiththat.com/2019/04/04/fake-academe-fined-50-1-million/>

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## **BELOW THE BOTTOM LINE:**

**Sinking .... sinking ....**

By Staff Writers, Climate Change Predictions.org, Apr 12, 2018

<http://climatechangepredictions.org/uncategorized/5454>

“Up to a quarter of a million homes around the country, vital power stations, ports, sewerage pipes, water supplies and transport hubs, **including Sydney airport**, are at serious risk of flooding as a result of sea-level rise and bigger storm tides caused by climate change, warns the Rudd Government’s first national assessment of the coastline...

“The report draws on scientific experts from the CSIRO, GeoScience Australia, the University of Tasmania and the Department of Climate Change. At risk by 2100, 157,000 to 247,000 homes,

170 industrial zones, 1800 bridges, 120 ports, 360 schools, colleges and universities, 102 retirement/nursing homes, 258 police, fire and ambulance stations and 75 hospitals and health centres. Sydney Morning Herald/ Environment, 14 Nov 2009. 'Flood warning: lucky they brought a paddle'" [Boldface added]

[SEPP Comment: The elevation of Sydney airport is 30 feet – 9 meters.]

### **Delete winter!**

By Staff Writers, Climate Change Predictions.org, Apr 11, 2018

<http://climatechangepredictions.org/uncategorized/5507>

“Winter has gone forever and we should officially bring spring forward instead, one of the country’s most respected gardeners said yesterday. ‘Over the last 12 months there has been no winter,’ said Dr Nigel Taylor, curator of Kew Gardens. ‘Last year was extraordinary. Spring was in January, April was summer, the summer was cool, then it was warmer and sunny in autumn.’ “‘There is no winter any more despite a cold snap before Christmas. It is nothing like years ago when I was younger. There is a real problem with spring because so much is flowering so early year to year.’” Express, 8 Feb 2008

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## **ARTICLES:**

### **1. Look, Up in the Sky—a Black Hole!**

In a distant ‘event horizon,’ scientists spy a cosmic ‘shadow.’

By Ray Jayawardhana, WSJ, Apr 10, 2019

[https://www.wsj.com/articles/look-up-in-the-sky-a-black-hole-11554901236?mod=hp\\_opin\\_pos2](https://www.wsj.com/articles/look-up-in-the-sky-a-black-hole-11554901236?mod=hp_opin_pos2)

SUMMARY: The astrophysicist and dean of arts and sciences at Cornell writes:

*“For something no one has ever seen, black holes seem awfully familiar. Astronomers believe they are numerous. Science-fiction authors and film directors love using their ability to warp space and time as a plot device. But humanity is only now getting its first blurry glimpse at a real-life black hole.*

*“Using a globe-spanning network of radio telescopes, astronomers this week revealed a black hole’s “shadow” for the first time. Observational evidence for black holes, with gravity so strong not even light can escape their grip, has piled up in recent decades. Some are gargantuan monsters lurking at the hearts of galaxies, including our own Milky Way, while others are invisible stellar corpses that tug on their companion stars.*

*“The evidence had been circumstantial until recently. The deduction of a black hole’s presence came by default. Observations implied the existence of superdense, compact objects (or clusters of such objects) but didn’t positively identify the black holes as such.*

*“Corroboration finally came three years ago, when the Laser Interferometer Gravitational-Wave Observatory registered a chirp, lasting fractions of a second. It was two black holes merging into one, triggering gravitational waves amounting to subtle ripples in the fabric of space-time. By now, researchers have “heard” the fleeting shrieks of colliding black holes 10 times.*

*“That may be enough to convince most people. But the scientists behind Wednesday’s announcement are a dogged bunch. They set out to pin down a black hole by its most distinctive*

*feature—the virtual boundary called the event horizon, which marks the point of no return. Anything that crosses it, including light, has no escape.*

*“Theorists realized that while no one can see a black hole directly, its “shadow” ought to be visible against the fog of radiation in its immediate vicinity. The shadow results from the combined effects of extreme bending and disappearance of light near and beyond the event horizon. Researchers calculated the shadow would be large enough to detect with an Earth-size network of radio telescopes.*

*“Now, thanks to a carefully choreographed observation campaign and two years of painstaking analyses, the Event Horizon Telescope team has captured the shadow of a supermassive black hole, billions of times heftier than the sun, at the heart of a giant elliptical galaxy known as M87. Reality tends to be messier than theory, so it’s no surprise the actual image is blurrier than the striking computer simulations that preceded it.*

*“Nevertheless, if seeing is believing, we have finally glimpsed the monster’s shadow, having heard its whimpers only recently. It appears that one of the weirdest constructs of the human mind exists for real. The transformation of the black hole from a mathematical oddity, emerging from Einstein’s theory of general relativity, to an observable fixture of the cosmos is a testament to humanity’s collective intellectual prowess, relentless curiosity and dogged perseverance.”*