Hot Talk, Cold Science (2021): Global Warming's Unfinished Debate

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Hot Talk, Cold Science (2021) Global Warming's Unfinished Debate (Revised and Expanded Third Edition)

S. Fred Singer (Author), David R. Legates (A ony R. Lupo (Author), Frederick Seitz (Foreword), William Happer (Foreword)

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OVERVIEW

The revised and expanded third edition of Hot Talk, Cold Science forms the capstone of the distinguished astrophysicist Dr. S. Fred Singer's lucid, yet hard, scientific look at climate change. And the book is no less explosive than its predecessors, and certainly never more timely.

Singer explores the inaccuracies in historical climate data, the limitations on and failures of climate models, solar variability along with the effects of clouds, ocean currents, and sea levels on global climate, plus factors that could mitigate any human impact on world climate.

Singer's masterful analysis decisively shows that the pessimistic, and often alarming, global warming scenarios depicted in the media have no scientific basis. In fact, he finds that many aspects of increased CO2 levels as well as any modest warming, such as a longer growing season for food and a reduced need to use fossil fuels for heating, would have a highly positive impact on the human race. Further, Singer notes how many proposed "solutions" to the global warming "crisis" (like "carbon" taxes) would have severe consequences for economically disadvantaged groups and nations.

As alarmists clamor to impose draconian government restrictions on entire populations in order to combat "climate change," this book reveals some startling, stubborn contradictory facts, including:

CO2 has not caused temperatures or sea levels to rise beyond historical rates.

Severe storms have not increased in frequency or intensity since 1970—neither have heat waves nor droughts. Global change is not harming coral reefs.

Any increases in CO2 concentrations across huge time spans (there have been a few) haven't preceded rising global temperatures; they've followed them by about six to eight hundred years—just the opposite of alarmist claims.

Alarmist climate scientists have hidden their raw temperature data and deleted emails—then undermined the peer-review system to squelch debate.

In sum, despite all the hot talk—and outright duplicity—there is no "climate crisis" resulting from human activities and no such threat on the horizon.

With the assistance of renowned climate scientists David R. Legates and Anthony R. Lupo, Singer's Hot Talk, Cold Science is an essential, clear-headed book of scope and substance that no one who claims to value science, the environment, and human well-being can afford to ignore.

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Highlights

Twenty-two years after the publication of Hot Talk, Cold Science, 2nd Edition, S. Fred Singer's classic primer on global warming—and antidote to alarmism—has been brought up to date, incorporating numerous recent scientific findings and making this fascinating and complex subject accessible to general readers. With assistance from climate scientists David R. Legates and Anthony R. Lupo, the late Dr. Singer has produced a clear-headed work of scope and substance that no one who claims to value science, the environment, and human well-being can afford to ignore.

Aside from the difficult, often-perplexing scientific issues related to climate change, the topic is marred by "hot talk"—overheated rhetoric that has politicized and misinforms public discussion. The Climategate email scandal, for example, revealed that key IPCC scientists were hiding their raw temperature data and the methodology of their selection and adjustments, conspiring to delete incriminating emails, and undermining the peer-review system to make it difficult for skeptical scientists to publish their work in scientific journals.

The fact of observed global warming—roughly 0.5°C (0.9°F) over the past 130 years—is evidence of neither a greenhouse effect nor human activity. We must accept the possibility that this warming had the same causes as the unexplained Medieval Warming Period (900-1300 AD) and natural recovery from the Little Ice Age (1450-1850 AD). Additional warming of about 1°C may occur over the next few centuries regardless of what humans do. Claims about a recent global warming trend are based the surface temperature record, but this record is inconsistent with data from other sources. Warming alleged to have occurred from 1978 to 1997, for example, is based on just one

data from other sources. Warming alleged to have occurred from 1978 to 1997, for example, is based on just one database of surface observations, whereas data showing no trend during this period come from oceans, lower-atmosphere satellite-based readings, and proxy data. Satellite-based temperature readings are accurate and truly global, and they show a minor warming trend well below that predicted by the models.

The existence of the global warming "pause" from the early 2000s to the mid-2010s—and the failure of dozens of IPCC models to predict it—cannot be ignored by scientists or responsible political leaders. Present models cannot properly handle clouds and other important climate factors.

Catastrophic sea level rise is not a foregone conclusion. Sea level has been rising since the Ice Age 18,000 years ago, but theory alone can't predict whether additional warming will accelerate sea level rise. It's conceivable that sea level could fall due to increased evaporation, precipitation, and accumulation of ice on Greenland and Antarctica. From 1915 to 1945, when surface temperatures warmed by about 0.5°C, sea level rise did not accelerate.

Synopsis

Is climate change harming Earth's biosphere and human well-being? How should policymakers respond to the possibility that greenhouse gases emitted by human activity, chiefly from the burning of fossil fuels, can lead to global warming? Is there a single book on climate science and policy that serves as both an accessible starting point for lay readers and a concise summary of new studies useful to those already versed in these complex and vital issues? In 1997 atmospheric physicist S. Fred Singer—the founding director of the U.S. Weather Satellite Center—wrote the first

edition of Hot Talk, Cold Science: Global Warming's Unfinished Debate. A second edition came two years later, and the book is now deemed a classic. Dr. Singer passed away in 2020, but not before expanding and updating his much-discussed book with assistance from climatologist David R. Legates (University of Delaware) and atmospheric scientist Anthony R. Lupo (University of Missouri).

Incorporating recent developments in science, economics, and public policy, Hot Talk, Cold Science, 3rd Edition is a badly needed de-coding device to a sprawling, highly technical literature, giving readers a clear understanding of what scientists and policymakers know about climate change—and what they don't. By separating rhetoric from reality, this well-timed release allows readers to better detect and think beyond the hyperbole and propaganda all-too-common in media coverage of this heated subject.

The stakes in this global debate, Dr. Singer reminds us, are monumental. With some calling for restrictions or carbon taxes to reduce the use of fossil fuels and get climate change under control, and others warning that impeding access to affordable energy would consign large segments of the world's population to deeper, more prolonged poverty, the only ground shared by all sides may be a burning sense of urgency for more research and education. By bringing vital but often neglected findings to the forefront of the reading public, Hot Talk, Cold Science: Global Warming's Unfinished Debate, 3rd Edition can play a critical part in stimulating fresh discussion on the most important scientific and policy issue of our times.

Hot Talk

Like the entire temperature record, the timeline of rhetoric about climate worries is marked by periods of advancement and retreat. By the mid 20th century, scientists had known for decades that atmospheric concentrations of carbon dioxide (CO2) were rising due to the burning of fossil fuels—oil, gas, and especially coal. Most thought it wasn't cause for concern: water vapor, they believed, was already absorbing any long-wave radiation that might otherwise cause additional CO2 to exert a greenhouse effect. Moreover, air temperatures had been declining since about 1940, prompting some to worry that air pollution and human activity could hasten the onset of another ice age.

Fear of global warming didn't gain momentum until the 1980s. In 1979, the National Academy of Sciences speculated that water vapor feedback would cause a doubling of atmospheric CO2 to increase temperatures by 1.5° to 4.5° Celsius. More alarming, temperatures rose rapidly from 1975 to 1980. At a time when Western nations were showing progress on water and air pollution, environmentalists increasingly took up the cause of global warming.

In 1988, as heat waves and droughts swept North America, hot talk reached a new peak. U.S. Senate hearings drew massive attention when NASA scientist James Hansen testified that he was "99 percent" sure that global warming had arrived. Unconvinced, Dr. Singer published that summer an op-ed in the Wall Street Journal arguing that "observed trends do not agree with expectation from greenhouse theory" and laying out scientists' uncertainties about climate change. (The essay is one of seven short pieces reprinted in the book and recalling Dr. Singer's key role throughout the climate debates.)

The year 1988 also saw the founding of the United Nations' Intergovernmental Panel on Climate Change (IPCC), a scientific body whose reports have greatly shaped—and been shaped by—the views of policymakers. What followed was a series of meetings, in Rio de Janeiro, Berlin, Geneva, Kyoto, Madrid, and Paris, convened to lay the groundwork for a treaty restricting and reducing greenhouse gas emissions. The IPCC has been a key driver for a global treaty and a source of misinformation and alarmist rhetoric—on catastrophic droughts, floods, storms, rapid sea-level rise, a collapse of agriculture, and a spread of tropical disease—messaging adopted and amplified by environmental groups and media around the world. The organization has also repeatedly hid scientific uncertainty, the absence of critical data, and evidence that questions or contradicts its apocalyptic prediction.

The IPCC has walked back some of its earlier alarmist claims, but it hasn't been the only scientific authority to pass off misinformation. In the late 1990s, geoscientist Michael Mann got media attention by publishing his "hockey stick" graph, purporting to show nearly one thousand years of flat temperatures in the Northern Hemisphere, until spiking around the turn of the 20th century with the surge of industrial civilization. Later analysis found Mann's inferences and methods lacking, and his graph was dropped from subsequent IPCC reports. A different episode—dubbed Climategate—uncovered emails from the Climate Research Unit suggesting unethical attempts to hide raw data and to prevent climate "skeptics" from getting published in top scientific journals. The media coverage may have played a decisive role in cooling the public's enthusiasm for a global climate treaty.

Cold Science

Scientists of all stripes overwhelmingly agree on several key issues related to climate. They agree, for example, that human activity has increased levels of greenhouse gases in the atmosphere; and that the leading greenhouse gas is water vapor (which along with atmospheric CO2 has kept the oceans from freezing over). Moreover, what scientists know about global trends in climate events and other phenomena often run counter to popular belief: Severe storms have not increased in frequency or intensity since 1970 (except in the eastern North Pacific); heat waves and droughts are not becoming more common; global warming is not harming coral reefs; and sea levels are not rising any faster than usual. Unfortunately, what we think we know about climate change is dwarfed by what we don't know, and the gaps in our knowledge lead to disagreements. **Scientists disagree**, for instance, about why rising levels of greenhouse gases have not caused the degree of global warming predicted by current climate models; they disagree over whether changes in global temperature or other climate elements are due to increased concentrations of greenhouse gases (especially CO2) in the atmosphere; and they disagree about what constitutes the "right" or "best" atmospheric levels of CO2 and global temperatures for humans or for the natural world. The list goes on.

Temperature data—past and present—are fundamental in the climate change debate. The only reliable global temperature record, however, comes from satellite-based readings of lower-atmosphere temperatures taken since 1979. When that record is used to test the accuracy of models that purport to show the impact of human activity on Earth's climate, the models invariably fail, revealing that human-caused CO2 emissions have little or even no influence on global temperatures.

The gap between temperature observations and model estimates raises a key question: Why does CO2 appear to no longer affect the climate? Dr. Singer offers informed speculation (but notes that his hypothesis is counterintuitive and has yet to be tested).

What about sea level rise? Here is another area where specialists depart from common belief. The rate of sea level rise isn't accelerating. Local coastal sea level rise, however, is highly variable worldwide, depending on differing rates at which coasts undergo tectonic uplift or subsidence of the shoreline, as groundwater and minerals are extracted. Dr. Singer forecasts sea level rise in the range of 18 to 20 centimeters by 2100. Presumably due to improved evidence and methods, the IPCC has reduced its maximum forecasts to 59 centimeters (IPCC 2007), down from 367 centimeters (IPCC 1990).

The climate change debate can be understood as just one more clash between economic and technological pessimists ("Malthusians") and optimists ("Cornucopians"). These opposing groups have clashed over economic development, resource depletion, and environmental progress. A full assessment must take stock of the benefits of modest warming, such as its boon for plant and animal life in nearly all parts of the globe and positive effects on human health. The conflict of visions also surfaces in regard to which response to global warming is given priority: mitigation, CO2 sequestration, or

In their afterword to *Hot Talk, Cold Science, 3rd Edition*, climatologists David R. Legates and Anthony R. Lupo state that no one was more qualified to write a book incorporating recent developments in the science and politics of climate change than Dr. Singer. "His myriad of accomplishments serves to illustrate why he is one of the very few people who have both the requisite political experience and the scientific background," Drs. Legates and Lupo write. "Over the years and despite all the invectives poured upon him by the alarmists, Dr. Singer has stood his ground for scientific integrity and adherence to the scientific method. For that, he is to be greatly commended."

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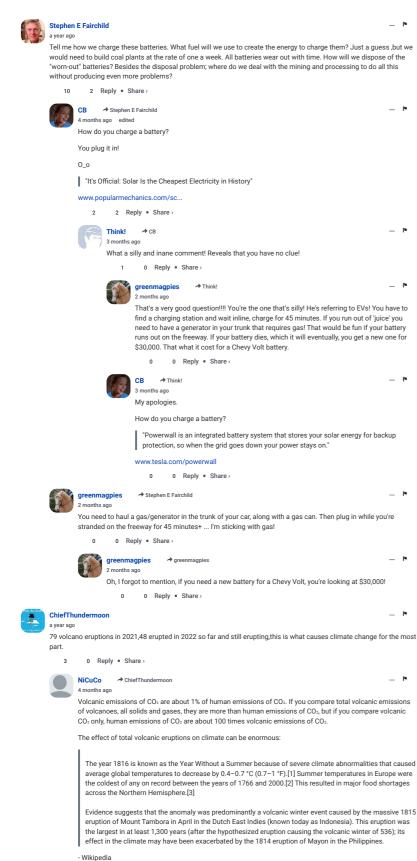
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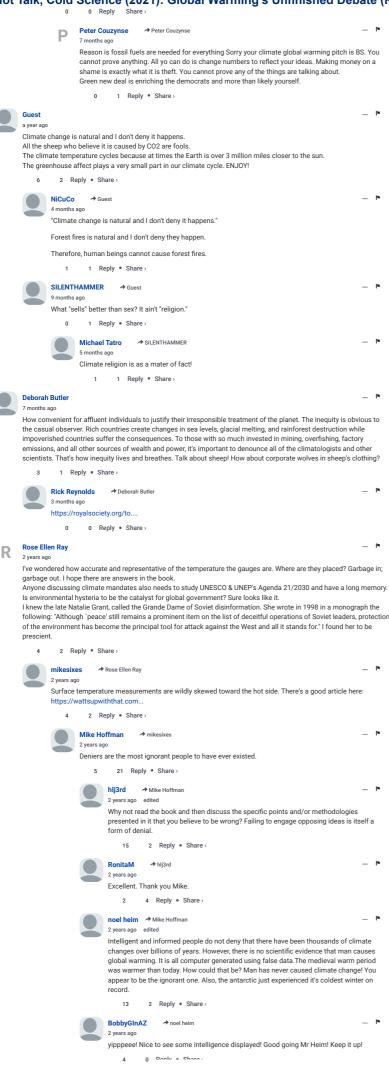
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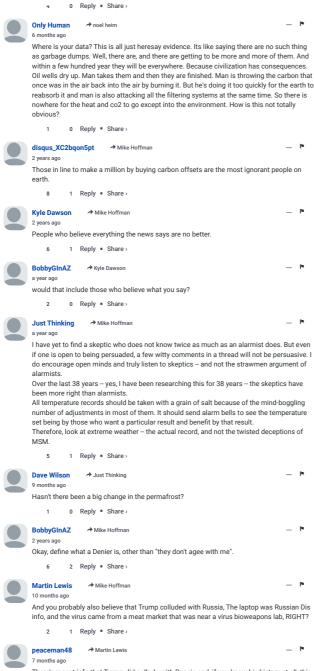


73 Comments



CO2 in the Earths atmosphere is now about 410 parts per million and was about 270 parts per million 300 years ago!!! If CO2 levels got below 150 parts per million, photosynthesis would stop and every green thing on this planet would turn brown and die and then we would die!!! HERE'S THE 'INCONVENIENT TRUTH'!!! All of the Gas, oil, coal, and trillions of tons of limestone, in the Earth's crust, along with everything living on the Earth today, was once CO2 in the early Earth's atmosphere!!! When life 1st appeared on Earth, 4.5 Billion years ago, the atmosphere WAS NOT 270PPM, CO2!!! It was 350,000 PARTS PER MILLION,ABOUT 1,296 TIMES AS MUCH CO2, AS TODAY!!! Greenhouses routinely crank the CO2 levels up to 1,000PPM to increase plant growth!!! 5 Reply • Share disqus_XC2bqon5pt → Martin Lewis This is just a money making idea of a few wealthy individuals. 2 Reply • Share > Only Human → disgus XC2bgon5pt 6 months ago Hardly. Much more money made by the carbon lobby 0 Reply • Share BobbyGInAZ → Martin Lewis Mr Lewis, kindly take Mike Hoffman aside somewhere and educate him. He is a keyboard bully who runs his ignorant mouth via his fingers, feeling totally safe behind the computer screen. Science is what YOU'RE quoting and not the routine insults tossed about by mr Hoffman. He is actually quite ignorant. Great job Martin Lewis, keep up the good work spreading science and not snotty comments 1 Reply • Share Peter Couzynse → BobbyGInAZ P 7 months ago Bobby you should enrich yourself with truth not the BS you are reading. The global warming mantra faded. Then Climate changed came about. EV batteries turbine fans parts wear out. too Where does all this waste go? We need fossil fuels for everything you use daily, weekly monthly... etc. Coal is needed to charge EV batteries. What happens to these batteries?they poison the earth. The SH_t gets in the water tables, eventually.. That s a really good plan? 1 Reply • Share: disgus_vSEYAbV4f1 → Peter Couzynse Yes. when the polar ice caps weren't melting down like they warned us,, then came "climate change." a Trojan horse for more communism 0 Reply • Share John Roe → BobbyGInAZ 8 months ago Mike is a moreOFF and living proof that dimming down (cannot type what I'd like to) and DE-EDUCATION exists 1 Reply • Share Mike Hoffman Your lack of understanding simple things like Climate Change is simply appalling. To them try to say it's not real is just inane on your part. 15 Reply • Share → Mike Hoffman dtheroux Mod Climate science is hardly simple as climate is an immensely complex and dynamic system Only Human Okay, then it should be simple just to take co2 out while we 'study' how complex it all is, shall we? 0 Reply • Share → Mike Hoffman Jett Rucker Is it the simplicity of climate change that inspires you to write it with Capital Letters? 0 Reply • Share John Roe → Mike Hoffman Hey mike, keep drinking that kool aid..... 1 Reply • Share Cindy Whitehead-sehl As opposed to you..a astrophysicist?? Maybe your gullibility is the appalling thing 1 Reply • Share Dan Kloster 350,000 ppm!! That's nuts! Cite your source. That would create atmospheric pressures that could not sustain life. Not to mention temperatures that would rival Venus. 0 Reply • Share Rick Reynolds 3 months ago https://archive.epa.gov/cli... 0 Reply • Share Peter Couzynse 7 months ago don't believe your BS 0 Renly • Share





7 months ago

There's recent info that Trump did collude with Russia and, if you know his history at all, this would not be a stretch for you to grasp. Hunter's Laptop is just a meme with nothing to show, no less than the hearings on HRC's emails and Benghazi did. Covid could very easily have been manufactured, maybe one day we'll actually know...

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