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Original Sin, Prophets, False Prophets, Witches, Communists, Preschool Sex Abuse And Climage Change

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I. Introduction

Abstract— This paper is not strictly a scientific paper, but one which is mostly scientific, but also relates a scientific controversy to various historical and religious roots. Accordingly, many of the claims here are not backed up by detailed calculations, or detailed experimental results, but are backed up with citations of other work, either direct citations, or else citations of work citating the primary sources. Many theologians, including the Pontifical Academy of Sciences, scientists, business leaders, university professors, and other celebrities assert that the increase of carbon dioxide into the atmosphere, caused by burning fossil fuel, endangers the planet, and urge us to stop. This article notes that fossil fuel has helped civilization advance worldwide, has alleviated abject poverty for billions, has enhanced the growth of plants, and that there is now no substitute for it. Thus, there is a strong moral component on this side of the issue as well, a moral component which many theologians, politicians, commentators, and scientists, neglect. However, the power use is very unequal in world. Bringing the entire human family up to western standards will require doubling or tripling the total power the world produces. At least currently, this means a large increase in the use of fossil fuel. While increasing CO_2 in the atmosphere may be a concern, it is hardly a planetary emergency. It is treated as such by some, because of a new set of modern day 'prophets', who claim that they have access to knowledge that ordinary people cannot have. This paper claims that they are false prophets and compares them to other such false prophets in American history. It advocates that the world not make any attempt to go to 'net zero carbon emission' at any time in the foreseeable future and stick with fossil and nuclear fuel until another means, probably nuclear and nuclear breeding become available at about the same quantity and price. Furthermore, it makes the case that switching from fossil and nuclear fuel to solar and wind, with battery backups would be a scientific, technical, public safety, national security, economic and environmental disaster.

Keywords—climate change, prophets, climate false prophets, sustainable energy

Eight years ago, this author wrote a scientific publication with a title very similar to this (1). This earlier paper was skeptical of any approaching climate disaster. It concentrated not only on the scientific, but also on the religious and historical aspects of the climate dilemma. For quite a while he wanted a chance to enhance that work by adding more to the religious aspects, modernizing the scientific parts, including the political and historical aspects, as well as including other aspect and such as motion pictures. Also, the intent was to include additional images. Hence a decent part of a few sections of this paper is a review taken from this earlier work, while most of this paper is new work. However, since it is in part a review, has a specific story to tell, and has a particular strategy to advocate, there is no way to disentangle itself completely from this earlier work. The paper is basically divided into three parts. Sections II-IV concentrate on the religious aspects of the climate dilemma. While many people, including the author do not believe that these biblical stories are literally true, they have been a foundation of our civilization for millennia. Accordingly, in these sections they will be treated as factual to more easily learn what they teach for human civilization. This author believes they have important lessons regarding climate change. Specifically, the bible warns us that there are both prophets and false prophets. The harm that false prophets can and have done is important to know. Sections V-VII describe 3 events in American history where false prophets led people astray and caused enormous damage. These stories are factual, historically correct, and the author believes that they have important lessons for us today as regards the climate dilemma. These 3 sections are nearly the same as the analogous sections in (1). Sections VIII, IX and XII are the main scientific parts and contain about ¾ of the total word count. These sections deal with the climate, solar and wind with battery backups; and possibility of sustainable carbon free power. Accordingly, it advocates that we do not make any attempts to go to net zero carbon emission but stick with fossil and nuclear fuels for the foreseeable future. Section X briefly discusses brainwashing and XI, the false prophets of climate change. Section XIII briefly draws conclusions. These are:

1: There is no climate crisis.

2: We can burn fossil fuel at double the current rate for a century, and climate crisis will still be very unlikely.

3: Converting to net zero any time soon will destroy civilization.

4: There are likely possibilities for affordable sustainable, carbon free energy, but these will take some time to develop.

II. Original Sin and Tikum Olam

This begins with a very quick review of two ancient religious principles, 'Original Sin'; from the Christian bible, and 'Tikum Olam' from ancient Hebrew works. Doing a Google search on Original Sin, one finds and AI summary:

In Christian theology, original sin refers to the inherent sinfulness of humanity, stemming from the disobedience of Adam and Eve in the Garden of Eden. It's the belief that all humans are born with a corrupted nature, inheriting a tendency to sin from their first parents.

One does not have to read very far into the bible to see that God was often quite dissatisfied with his creation, saw that it could be sinful, and He was more than willing to punish. He had hardly finished with creation when he told Adam and Eve in the Garden of Eden that "But from the tree of knowledge of good and evil shall not eat . (Genesis 2-17)". As we know the serpent tempted Eve to eat the fruit, and this is often regarded as Original Sin. As punishment God banished Adam and Eve from the garden and forced the serpent to crawl only on its belly. Figure (1) shows Adam, Eve, and the serpent in the Garden of Eden;

Figure 1: Adam, Eve and the serpent. Eve is picking the forbidden fruit

This paper will make the case that the concept of 'Original Sin' is one which is very handy for what it calls 'false climate prophets' to exploit. However, this concept is usually not stated explicitly; the modern world is too secular for such an explicit use of it. It would probably turn off many people, hence the use of it seems to be more implicit than explicit. For instance, in the case of the climate dilemma, there is often an unstated assumption that that the natural world was in some sense perfect. Upsetting this perfection by digging up coal, oil, and natural gas will destroy this natural, perfect world. There has been a movement, called by its web site, www.350.org, led by Bill McKibben to 'Leave the Carbon in the Ground', the title of an open letter by Bill McKibben and others (2). We burn coal, oil and natural gas and despoil the wonderful natural environment which God gave us. All we must do to end this sinful behavior is to 'leave the carbon in the ground'. What could be easier? Or as God herself said "Now what I am commanding you today is not too difficult for you or beyond your reach". (Deuteronomy 30.11). Never mind that this coal, oil and gas have allowed civilization to flourish in many parts of the world, producing a more prosperous, healthier, longer lived, and better educated population; as well as a cleaner environment and additional plant growth. It has alleviated abject poverty for billions. Turn off the oil, coal and natural gas, and the poverty comes roaring back for all but the privileged few. The world would then be as it has been for most of human history, the privileged few living well off animal and human energy, that is the energy of other humans, while the rest of us live in squalor.

Tikun Olam has a very different vision, the world is not perfect as it was made, and it is the responsibility of humans to perform Tikum Olam, or to repair the world. Doing a Google search on Tikum Olam, one first finds the AI summary:

"Tikun Olam" (or Tikkun Olam), a Hebrew phrase meaning "repairing the world," is a concept in Judaism that refers to actions taken to improve the world and make it a better place. It encompasses various forms of social action, justice, and efforts to improve the human condition.

Notice that among other things, it seeks to 'improve the human condition'. This author takes it to mean that creating abundance from scarcity is acting in accord with Tikum Olam. Buning oil, coal, natural gas and nuclear fuel as cleanly as possible, is something that this author sees as consistent with Tikun Olam. Ancient religious texts give examples of this. One example is Jesus feeding the multitude with 2 fish and 5 loaves of bread, Mathew (14, 19-20). "And he (Jesus) commanded the multitude to sit down on the grass, and took the 5 loaves and 2 fishes, and looking to heaven he blessed, and brake, and gave the loaves to his disciples, and the disciples to the multitudes. And they did all eat and were filled: they took up the fragments that remained twelve baskets full." Figure (2) illustrates this.

Figure 2: Jesus feeding the multitude with 2 fish and 5 leaves of bread.

It is likely that at the time, Jesus was familiar with the expression 'Tikun Olam', and possibly, he even believed that he was acting in accordance with its dictates. Likely it was even in his native language. One thing we do know for sure; he was not familiar with the term 'Original Sin', in any language. That term by Christian theologians, entered the vocabulary centuries later.

Notice that at least as presented here regarding the climate dilemma, 'Original Sin' and 'Tikun Olam' work at cross purposes with each other. Original sin, at least as interpreted by 350.org says 'leave coal and oil in the ground', it will ruin the perfect environment God handed us. Tikum Olam, as interpreted here, says mine the oil and coal, and use it as cleanly as possible; it will improve the human condition.

This paper sees the climate dilemma in terms of Tikum Olam, not in terms of Original Sin.

III Prophets

Not too many generations had passed before God again grew dissatisfied. "Now the earth was corrupt in the sight of God, and the earth was filled with violence (Genesis 6-11)". God resolved to destroy the earth. However, at this point something new arose, God decided to take a particular person, a prophet, into his confidence warn him of the disaster and give him instructions on how to save himself and his family. Searching Prophets on Google, one finds the AI summary:

A prophet is a person who is believed to be a messenger of God, conveying divine messages or teachings to others. In many religions, prophets are seen as intermediaries between God and humanity, often speaking on behalf of God and sometimes even predicting the future.

This is the definition of prophet we will use. In this case, God said to Noah "The end of all flesh has come before Me, for the earth is filled with violence. I am about to destroy them with the earth" (Genesis 6-13)". As we know, He told Noah to build an arc and take a male and female of every animal onto it so they could ride out the storm. "And the rain fell upon the earth for 40 days and 40 nights (Genesis 7-12)" "And the water prevailed more and more on the earth so that all high mountains everywhere were covered (Genesis 7-19)". After the flood receded, Noah and his entourage were able to begin anew.

The figure of the prophet is a recurring one in the bible and this article can hardly even scratch the surface. Another is of course the first patriarch, Abraham. God saw that Sodom and Gomorrah were filled with evil and he resolved to destroy it. He took Abraham into his confidence. Abraham bargained with God, finally getting Him to admit that if there were 10 righteous men there, He would refrain from destruction. But Abraham could not find the 10 necessary righteous men, so God destroyed the city, this time with heat and fire. "Then the Lord rained on Sodom and Gomorrah brimstone and fire from the Lord out of heaven (Genesis 19-24)". Figure (3) are images of Noah welcoming the animals onto the arc and of the destruction of Sodom and Gomorrah.

Figure 3: Top Noah welcoming all the animals onto the arc; Bottom: The destruction of Sodom and Gomorrah

The greatest prophet of all undoubtedly was Moses. He had many conversations with God and relayed them to the people. Some of the messages he communicated to his people were of vital importance, for instance the 10 commandments. Moses also conveyed many warnings to the Israelites from his conversations with God "Beware, lest your hearts be deceived and you turn away and serve other gods and worship them. Or the anger of the Lord will be kindled against you and He will shut up the heavens so there

will be no rain and the ground will not yield its fruit; and you will perish quickly ." (Deuteronomy, 11-16 and 17).

Moses had many simpler and frequent conversations with God in their time (40 years) wandering in the desert before arriving in the promised land. Some were on topics which in the modern world we would consider to be of trivial importance, for instance the colors of the various components of the house for God which the Hebrews would build. Others involved crucial matters of life and death. For instance, the Hebrews often complained about the difficulties of living in the desert, for instance the nearly perpetual lack of water. Then Moses cried out to the Lord, "What should I do with these people? They are ready to stone me! The Lord said to Moses, "Pass before people. Take your staff, . Strike the rock, and water will come gushing out. Then the people will be able to drink. So Moses struck the rock as he was told, and water gushed out as the elders looked on" (Exodus 17, 5 and 6). Figure (4) are pictures of Moses delivering the 10 commandments to the Hebrews and getting water from the rock.

Figure 4: Top Moses delivering the 10 commandments to the Hebrews; Bottom: Moses striking the rock to get water

IV False Prophets

If someone tells you he has spoken with God, and God commanded him and his followers to do such and such, how does one know if he really spoke with God? Perhaps he is lying and never did speak with God. Unfortunately, there is no way to know. Is this person a real prophet, or a false prophet who may be acting only to enhance his or her own wealth, position, reputation. He or she may even be acting with less personal, and strictly evil intentions. As we will see, false prophets have caused destruction and chaos many times in world history.

Both the Hebrew and Christian bibles have numerous warnings against following false prophets. However, they give few ways to tell if a prophet is true or false. If there appears among you a prophet or dream-diviner and he gives you as sign . saying "Let us follow and worship another god" do not heed the words of that prophet (Deuteronomy 13, 2-4). Or as God himself said "But if your heart turns away and you are not obedient, and if you are drawn away to bow down to other gods (i.e. material prosperity) and worship them, I declare to you this day that you will certainly be destroyed" (Deuteronomy 30.17 and 18).

In the Christian world, Jesus himself, in his sermon on the mount, warned against false prophets. Beware of false prophets which come to you sheep's clothing, but inwardly they are ravaging wolves. (Mathew 7-15). Figure (5) is an image of Jesus delivering the sermon on the mount and, among other things, warning against false prophets.

Figure 5: Jesus delivering his sermon on the mount and warning against false prophets, among other things.

So let us review what it takes to be a legitimate prophet, in biblical and modern times. In biblical times, it was a person who actually had conversations with God. But it was not only that. The result of this conversation had to be genuine human or natural action, which occurred shortly after this conversation, and which could be seen by the multitudes. For instance, the world *was* destroyed by a flood not long after Noah finished building his arc; shortly after

Abraham was unable to find 10 righteous men, Sodom and Gomorrah were destroyed; when Moses descended from the mountain, he was holding two stone tablets, for all to see, which had been given to him by God; and when he struck the rock with his staff, water actually came rushing out.

Let us see what this means in the modern era for people who might be claiming to be modern prophets. While obviously nobody would now claim he or she had a conversation with God, the natural substitute is to claim knowledge that ordinary people cannot have. This might be complex scientific information beyond the understanding of most; or it might be top secret government or military information which is obviously extremely restricted. Secondly, shortly after the would-be modern prophet gives his prophesy, there must be reasonably quick action either natural, or human, for all to see, consistent with this warning. For instance, there might be a terrible flood as she warned; or some other country he warned about, which seemed peaceful, might start a large war. In this way, the modern definition of a prophet corresponds about as closely as possible to the biblical definition as interpreted here.

In the modern world, of course prophets, true and false, do not speak about conversations with God. Few would believe it. Hence the job of the modern skeptic is easier than that of the biblical skeptic. There is no knowledge which the modern prophet, or false prophet claims that cannot be checked out. Nevertheless, the false prophets abound in the modern world. The next 3 sections give examples of false prophets causing destruction and chaos at various times time in American history. With the hindsight of history, there is little doubt that these scoundrels, which at the time had a large following, were in fact false prophets. Then Section XI the main part of this paper makes the case that those promoting a climate crisis are in fact false prophets. History will be the ultimate judge of this assertion.

V Witches

One of the strangest incidents in American history has been the Salem witchcraft trials. Marion Starkey (3) published a very authoritative account. The contagion began in the house of Reverend Samuel Parris where his daughter, Betty, 9, and her cousin, Abigail, 11, lived. A lady slave Tituba, whom the family acquired in Barbados, also lived there. Tituba regaled the girls with stories of voodoo and witchcraft. Figure (6) from the time is a picture of Tituba scaring the girls. In January,1692, the girls began to have frequent fits of hysteria. Soon other town girls began to join. Conferring with other clergy, Reverend Parris concluded that the devil and witches haunted the girls. While Ms Starkey wrote a decade or so before Elvis or the Beatles, she likely would have compared the Salem girls to those at one of these more contemporary concerts.

In any case, encouraged by Reverend Parris the town became convinced that witches haunted the girls. But who were the witches? The only way to find out was to have the girls point them out. It took some convincing, but finally the girls pointed out Tituba and two other ladies lower class women.

But how do you prove witchcraft? Surely there was no physical evidence. The examinations and trials relied on what was called specular evidence. It is not easy to explain this to a sophisticated 20th and 21st century audience, and in fact, Ms Starkey had a hard time doing so. The girls claimed they saw the specter, or essence, or spirit of the person performing witchcraft. In one instance at church, they fell into a fit, claiming they saw a witch's Sabbath in the rafters above them. Others looked but saw nothing. Yet the girl's words were taken as absolute gospel. The spectral forms for late 17th century Puritans in Salem, were as real to them as your husband or wife, sitting with you at the dinner table is to you today.

The girls accused more and more people during the winter, spring and summer, including respectable people. One was Rebecca Nurse, a 70-year-old woman who worked a farm with her husband and her 8 children. She was tried as a witch and went to the gallows denying her guilt. Challenging the girls in any way could get you accused of witchcraft. One courageous man who did was John Proctor. He and his wife Elizabeth were jailed, creating 5 orphans. John was executed, but Elizabeth was spared due to her pregnancy. An image from the time of the execution of John Proctor is shown in Fig (6).

By September 1692, 20 had been executed and over 150, including several children, had been jailed. Conditions in the jail were horrible; the people who built the jail had never anticipated such a gigantic crime wave. Furthermore, the time spent on the panic was time taken away from work; fields lay fallow, starvation was a real possibility.

At this point, the new governor, William Phips, see Fig (6) had no choice but to take an interest, even though his main responsibilities lay elsewhere. He conferred with ministers not only from Puritan Massachusetts, but also from New York, where the Dutch influence was still strong. The upshot was he forbade spectral evidence. Without spectral evidence, the cases all collapsed. Also confessed witches were allowed to recant their confessions. The panic was over; it lasted less than a year.

So here we have our first example of a self-appointed false prophet. Reverend Parris and his team of assistants, pointing out original sin, which nobody could see except them. He created only chaos in his wake. History lists him as a sinner, not a prophet.

Figure 6: Top Tituba scaring the girls with tales of witchcraft; Center, John Proctor at his execution; Bottom William Phipps. The colonial governor who ended the witchcraft panic.

VI Communists

Another 'witch-hunt' in American history, involving another 'false prophet', who saw human sin before anyone else could, is the McCarthy era in from about 1950 to 1954. On February 9, 1950, Senator Joseph McCarthy gave a speech in Wheeling, West Virginia in which he asserted that he had in his hand a list of 205 known Communists working in the State Department. Later that number changed to 57, then to 284, then 79, then 81, then 108; the number kept changing from one speech to another. But he never revealed the names on various lists. It reminds one of the 1962 movie *The Manchurian Candidate*, starring Angela Lansbury, Lawrence Harvey, and Frank Sinatra. The movie was about a senator like McCarthy who kept asserting that he had lists of a large, and always varying, number of Communists in the United States Government. While McCarthy was a bachelor until 1953, the evil genius in the movie was Angela Lansbury, the senator's wife. The movie senator (not too bright) kept asking his wife why he could not just give a number. Angela Lansbury kept insisting that the varying numbers were vital, they kept people interested, nobody disputed the presence of Communists in government, only the number. But he kept badgering his wife, and finally she reluctantly agreed. While he was shaking a Heinz ketchup on his dinner, she said to him, okay, the number will be 57.

To get back to the actual Senator McCarthy, he grabbed more and more power in the Senate and used it to investigate Communist infiltration. He publicly accused many, and these lives were ruined by these accusations. But was anyone ever convicted? Here is AI's assessment:

While Senator Joseph McCarthy and his investigations into communist infiltration led to numerous accusations and ruined careers, very few individuals faced conviction for espionage or related crimes during the McCarthy era. The focus of McCarthy's investigations was more on public accusations, blacklisting, and career destruction rather than legal convictions.

He finally came undone when the Army accused him, and his chief counsel, Roy Cohn of improperly pressuring the Army to give a former associate, David Schine favorable treatment. McCarthy's senate committee (chaired by South Dakota Republican Karl Mundt) investigated this. The hearings were televised, and they transfixed the country. They went on for 36 days, involved 32 witnesses and millions of words. McCarthy's bullying tactics finally turned off the country.

The key moment came when McCarthy asked the Army's chief counsel, Joseph Welsh about communist leanings of one of his junior associates, Fred Fisher. Here is Welsh's response:

Welch: "Until this moment, Senator, I think I have never really gauged your cruelty or your recklessness. Fred Fisher is a young man who went to the Harvard

Law School and came into my firm and is starting what looks to be a brilliant career with us. Little did I dream you could be so reckless and so cruel as to do an injury to that lad. It is true he is still with Hale and Dorr. It is true that he will continue to be with Hale and Dorr. It is, I regret to say, equally true that I fear he shall always bear a scar needlessly inflicted by you. If it were in my power to forgive you for your reckless cruelty I would do so. I like to think I am a gentleman, but your forgiveness will have to come from someone other than me."

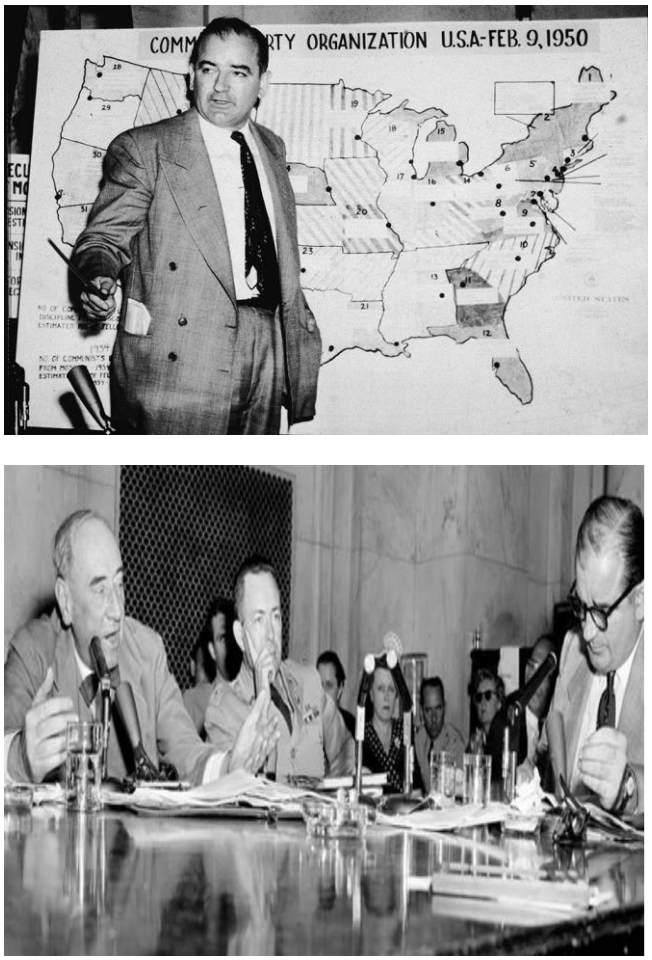

Figure 7: Top McCarthy giving his initial speech; Bottom: At the Senate hearings, McCarthy on the right, Welsh on the left

After the hearings, McCarthy had lost all support he had in the senate and had lost the trust of the country. He was censured by the senate after the hearings and died of cirrhosis of the liver (he was a very heavy drinker) in 1957.

So here we have another example in American history of a false prophet (McCarthy) convincing a large of people that he had access to knowledge that ordinary people could not have. He used this knowledge only to create chaos in his wake, and in the process ruined countless lives.

VII Preschool sex abuse

In the1980's and 1990's, there was another hysteria gripping the United States, brought on by another group of 'false prophets'. These were the prosecution of preschool teachers for sex abuse of their students. The similarities between the trials of these day care workers in 1990's and the Salem witchcraft trials of the 1690's are so close as to be almost spooky.

At least 3 preschools were involved, initially the McMartin preschool in Los Angeles, run by the McMartin family; the Fells Acres Day Care Center in Malden, MA, run by Gerald Amirault and several members of his family; and the Little Rascals Day Care Center in Edenton, NC, run by Robert and Betsy Kelly. The original accusation was made by a McMartin mother, one diagnosed with acute paranoid schizophrenia and who later died of chronic alcoholism. In all cases the children (then 6 or 7, trying to recall events when they were 3 or 4) were prodded by social workers and psychologists, in some cases for months, before they talked about the abuse these interrogators wanted to hear about.

The stories the children told were fantastic. From one court record "Gerald Amirault had plunged a wide blade butcher knife into the rectum of a 4-year-old boy, which he then had trouble removing." Other children talked about satanic rituals in secret and magic rooms, in tunnels beneath the schools; they said they were forced to drink urine, were tied to a tree, were taken up and tortured in balloons, . Who in his right mind would believe this? Certainly, nobody ever found the tunnels or secret rooms below the school.

Many teachers were arrested and brought to trial. In the McMartin school case, all were acquitted or had hung juries. However, many of them were jailed as long as 5 years awaiting trial. Those in Edenton and Malden were not so lucky. They were mostly convicted; several being handed multiple consecutive life sentences. Gerald Amirault served the longest sentence, 18 years. Another particularly upsetting case in Edenton was that of Dawn Wilson, a single pregnant mother, 23 years old and with a 17-month-old daughter. She worked in the cafeteria and at times with the children. Frontline had a TV series on her dilemma, along with other victims. Prosecutors came down on her like a ton of bricks, offering her a 10-year sentences which she refused. She was tried, found guilty and given a life sentence. Ultimately all convictions were overturned as the various communities gradually came to their senses. Later Dawn Wilson moved to Western North Carolina and married the father of her second child.

It is difficult to escape the conclusion that Salem in the 1690's handled the panic better than Los Angeles, Edenton, or Malden did in the 1990's. In Salem, the panic lasted less than a year, these others lasted for years, decades. After the panic, Reverend Parris was fired. To my knowledge the psychologists, social workers and prosecutors have not been. Quite the contrary, Martha Coakley, one of the lead prosecutors in the Amirault cases won the Democrat nomination

for the 2010 Massachusetts senate race. Republican Scott Brown defeated her. After Reverend Parris left, they hired a new reverend, one who attempted to bring the community together and largely succeeded. Years later the Massachusetts Bay colony provided partial compensation to some of the victims and their relatives. But most important, none of the 1990's governors of Massachusetts, California, or North Carolina showed the wisdom and courage that Governor Phips showed in the 1690's. Confronted with what was obviously the 20th century version of spectral evidence, they could have devised reasonable rules of evidence for such cases. Instead, they did nothing.

There is one thing, which the prosecutors got right. These children were abused and even brutalized, but not by their teachers. They were brutalized by the real 20th century witches, the psychologists and social workers, with their anatomically correct dolls and pseudo-science, who worked these children over for months, and forced fantastic, untrue testimony of abuse from innocent children. Like all false prophets, they claimed that they had knowledge and understanding, this time in psychology, which ordinary people could not possess or understand. They alone had the understanding that original sin could lead to this behavior on the part of the school staff. However clearly none of this evidence would pass the laugh or smell test. These children, now adults, all know that their testimony sent many innocent people to prison, some for long periods of time. This was truly the long-lasting brutalization of the children. How can they possibly live with themselves knowing that?

Fortunately, there is one good witch in the story. This is Dorothy Rabinowitz, a reporter for the Wall Street Journal. From the beginning, she perceived what was happening, she recognized the tremendous injustice involved. She wrote many columns exposing the fraud. Ultimately this series won her a Pulitzer Prize. Finally, and largely due to her efforts, everyone wrongly convicted was freed, the last one being Gerald Amirault, after he served 18 years. Her description of her meeting with him after he was released from prison could bring tears to the eyes of the most hardened cynic (4). In Figure (8) there are pictures of the various participants.

Figure 8: Some of these involved in the preschool sex abuse scandal; Top: Gerald Amirault, kissing his daughter Gerrilyn and his wife Patti after being released from an 18 year prison term; Center, Dorothy Rabinowotz, the Pulitzer Prize winning Wall Street Journal Reporter who broke many stories of the terrible injustice; Bottom Dawn Wilson a young, struggling single mother with a young daughter who was caught up in the maelstrom.

So here we are again. There are different false prophets, this time the psychologists and social workers. They see what others cannot. Using their specialized training, they can interview children and

get them to recall what never happened, and in doing so, send many innocent people to prison. The harm they did is immeasurable. They were not prophets, but were villains, better *they* should have been jailed.

VIII: Climate change

This section, in several subsections, leads up to the conclusion that just like Salem, McCarthy, and the preschool sex panics, the climate scare is another example of false prophets causing panic, damage, and chaos. The 'false climate prophets' here do not claim information available to them by talking with God, or by knowing secret government documents, or knowing how to use their knowledge of psychology to discover criminal actions. Their claim is that they alone have the scientific knowledge that the public not only lacks, but that also a large fraction of scientists not in their precise field, lack as well. This section challenges all such claims. It makes the case that there is no climate calamity, neither now, nor in the next century or two. It also makes the case that one does not have to be a 'climate scientist' (or perhaps even a scientist) to see the fallacy in their case of an onrushing climate disaster. This author is scientist with more than 50 years of experience and had no difficulty checking out their claims. He also makes the case that switching to solar and wind, with battery backups; would be a scientific, technical, public safety, economic, national security, and environmental disaster.

VIIIA: CO_2 in the atmosphere and Net zero

Since Al Gore, wrote his book and created his motion picture*, An Inconvenient truth,* which highlighted what he considered to be the danger to life on earth because of increasing CO_2 in the atmosphere, the United States and the world has been taking his warnings very seriously. The issue is that CO_2 is what is called a greenhouse gas. Very briefly, the sun's radiation to the earth is mostly in the ultraviolet, a short wavelength. This radiation as it is absorbed by the earth and heats it. As the earth heats, it also emits radiation back into space, and this radiation increases as the temperature on the earth to the fourth power. Here, the temperature is in what is called the Kelvin scale, that is where the zero point is at a temperature of absolute zero, that is at a temperature -270^{o}C, or -460^{o}F. Hence, I, the radiation power per unit area radiated from the earth scales as

$$I \sim T_k^4 \quad (1)$$

Where T_k is the temperature in degrees Kelvin. In other words, if the temperature is measured in degrees C,

$$T_k = T_c + 270$$

If the total radiated power emitted from the earth, were equal to that absorbed from the sun, the average temperature of the earth would be ~ zero degrees Fahrenheit, or ~ -18^{o}C. This is certainly a temperature much too cold to support much life.

The average wavelength of the radiation emitted by a black body, is determined by its temperature, with hotter temperature meaning shorter wavelength. The radiation emitted from cooler earth, is in the infrared, a much longer wavelength than the radiation it receives from the sun. A major complication to this picture, is that the earth's atmosphere absorbs a great deal of the infrared radiation. It reradiates this escaping radiation back earth, heating it. The gases that absorb the infrared radiation and then re-emit it are called greenhouse gases. The main gases in the atmosphere, oxygen and nitrogen, are not greenhouse gases. Complicating the picture further is that these greenhouse gases typically absorb the radiation only for a limited range of wavelengths corresponding to the energies of the quantum states being excited.

The actual average temperature on earth is about 15^{o}C, or 59^{o}F, certainly warm enough to support life on earth. It is so high mostly because of the greenhouse effect from the water vapor in the atmosphere. Water is both a strong absorber, and it absorbs over a wide range of wavelengths in the infrared. This absorbs the outgoing infrared radiation from the earth, and then the molecule that absorbs the radiation quickly reradiates it, but instead of going up into space, about half goes up, and about half goes down, i.e back to the earth, heating the earth surface.

Another greenhouse gas is carbon dioxide. There are many sources of CO_2 in the atmosphere, but one of the main ones is the burning of fossil fuel, the basis of our civilization. Before the industrial revolution, the amount of CO_2 in the atmosphere was about 280 parts per million (ppm), or about 0.028% of the atmosphere. Before the industrial age, when little fossil fuel was burned, civilization was a thin veneer atop a gigantic mountain of misery and poverty, a veneer maintained by such institutions as slavery, colonization, feudalism, and tyranny. Once we began to burn fossil fuel, one result was the advancement of civilization to billions more people. Another result is the increasing CO_2 in the atmosphere.

The concentration of CO_2 in the atmospheric has been carefully measured over the last century or so; a graph of this from Penn State University (5) is shown in Figure (9).

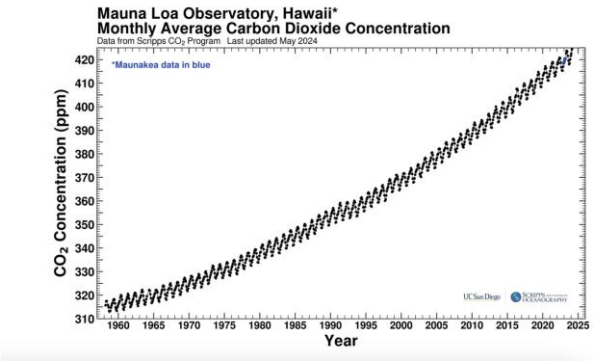

Figure 9: Concentration of CO2 in the atmosphere in part per million from 1960 to the present.

Now the concentration of CO_2 in the atmosphere is ~ 420 ppm, or an increase of about 50% from the preindustrial value of ~ 280 ppm. Clearly this has caused at least some warming, just as the water vapor does. The question is how much, and is it a danger to civilization? The story we hear in much of the media, from the scientific establishments, from many celebrities, captains of industry, and some government agencies is that it is a danger to civilization.

It has become a standard theme, that to avoid a climate calamity, we must keep the temperature rise to less than 1.5^{o}C to reduce further the likelihood of this calamity. This should immediately ring alarm bells. After all, as we will see, the temperature has already risen by more than a degree above the preindustrial level. If raising it 1.5^o would produce calamity, things ought to be at least pretty bad once it has risen by more than one degree. But there is no evidence that any sort of climate catastrophe is imminent. In fact, by virtually every measure, human life span, health, nutrition, agricultural productivity, education, industrial production, cleanliness of the planet.the world is much better off now that it was in 1910, the last time the temperature was at the preindustrial values. In fact, this paper disputes the fact that an increase in temperature of 1.5^{o}C, or even 2^o mean that a calamity arrives, as do many other authorities. For instance, Judith Curry, former head of earth sciences at Georgia Tech, but resigned because the academic atmosphere had become too restrictive; has asserted that: it is also difficult to justify the claim that a few degrees of warming is dangerous in any meaningful way (6). Consider that the yearly average temperatures in Washington DC, New York City and Boston are 14.5^{o}C, 13^{o}C and 11^{o}C respectively. Is it believable that an increase of 1.5^{o}C will really cause calamity? The variation in temperature over the globe is much, much more than that, as we can see from a variation in a relatively small part of the American northeast. Humans and their natural environment can exist in a wide variety of temperatures. As we will see, in the period of human civilization the world has gone through many hot and warm spells, with the hot spell being warmer than today. In fact, it was during the warm periods that civilization advanced, and the cold periods that were catastrophic (7).

Nevertheless, there is a nearly constant drumbeat telling us that we must very rapidly end our use of fossil fuel, that is go to what is called net zero. These warnings not only ignore the benefits of civilization that fossil fuel confers upon us but also ignores the beneficial effects of added CO2 in the atmosphere, CO2 being an important nutrient for plants.

These warnings are sent down to us, like lightning bolts from above, by a group called the Intergovernmental Panel on Climate Change (IPCC), a UN group which meets every year, assesses the climate, and invariably tells us mere mortals that we must reduce or end our dependence on coal, oil and natural gas. The meetings are always in attractive, and expensive cities, and attracts the grand pooh-bahs of government, industries, universities, entertainment, and other celebrities. Many use their private jets to fly in. The longer the world ignores them and goes about its merry way with nothing particularly threatening happening, the more dire their warnings become. The 2018 meeting was particularly noteworthy. They said that to avoid a climate crisis, the world *must* reduce its fossil fuel use by 45% by 2030, 12 years from the time the meeting (8, 9). (To change energy infrastructure typically takes at least a generation, and usually longer). Not only that, but there must also be a reduction from then to net zero by 2050. Many politicians picked up on this:

Pete Buttigieg at the July 30, 2019 Democratic Presidential debate: “An economy that’s not working for everyone, endless war, climate change. We have lived this. In my industrial Midwestern hometown, my generation has lived this as long as we have been alive. And it’s only accelerated. Science tells us we have 12 years before we reach the horizon of catastrophe when it comes to our climate”.

Beto O’Rourke Democratic debate on July 30, 2019: “I’ve listened to scientists on this, and they’re very clear. We don’t have more than 10 years to get this right, and we won’t.”

From Bernie Sanders 2020 campaign web site: “The scientific community is telling us in no uncertain terms that we have less than 11 years left to transform our energy system away from fossil fuels to energy efficiency and sustainable energy, if we are going to leave this planet healthy and habitable for ourselves, our children, grandchildren, and future generations.”

What utter nonsense! And these people feel they are qualified to become **PRESIDENT!!**

We are now (in 2025) more than halfway along on this perilous journey; let’s see how much the world paid attention to these solemn warnings, and let’s see how much closer we are to calamity. Figure (10) is a plot of world energy use (10).

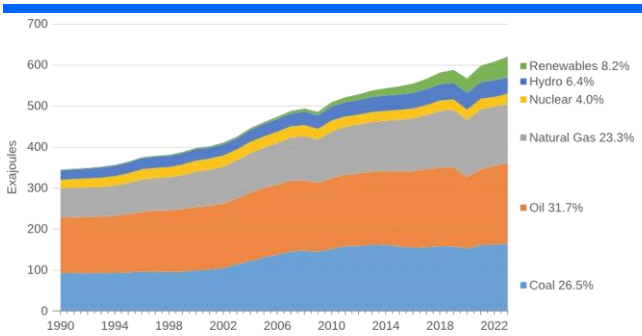

Figure 10: World energy use 1990 to 2022

While the graph only goes to 2022, AI provides information on the energy use in 2023 and 2024 (halfway to the IPCC's target date):

AI Overview:

In 2023, global energy consumption reached a record high of 620 exajoules (EJ), representing a 2% increase from the previous year. While renewable energy saw significant growth, fossil fuel consumption and emissions also reached new peaks. In 2024, global energy demand rose to nearly 650 EJ, a 2.2% increase, with advanced economies experiencing a rebound in demand after a period of decline.

Hence instead of the world obeying the IPCC's dictates and decreasing its energy us by ~20% at the halfway mark, it increased it by more than 10%. Yet the world seems to be going along in its merry way. We are **most certainly not** any closer to catastrophe than we were in 2018.

But let's look at the use of energy in various parts of the world (11). This is shown in Fig. (11).

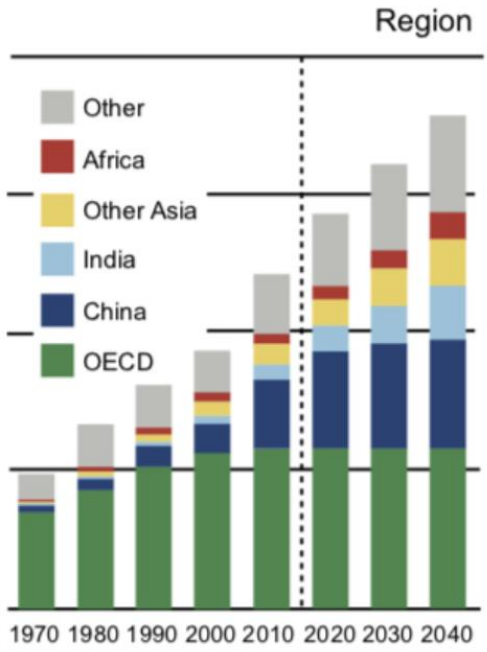

Figure 11: The use of power in various parts of the world from the BP's 2019 summary of energy. The horizontal lines across are in units of 5 trillion Watts, that is 5 terawatts (5TW). To the left of the vertical dashed line is the historical record, to the right, the predictions of BP.

Of course, going to net zero this would demand extraordinary changes in the way the 1.2 billion citizens of OECD countries live. These are the countries with the more advanced economies; they use roughly 5 kW of power per capita from various sources. As we will see, it is extremely unlikely that net zero, that is going to wind and solar, can give the OECD countries anything like this amount of power. Hence doing so would demand extraordinary changes in the lifestyle there. It would almost certainly mean the end their modern civilization as they know it. As we argue shortly, it is much worse than just a change in lifestyle. On the other hand, the roughly one billion people in Africa, by contrast, subsists on about 500 W per capita. This is not that much more than human power expended to live, that is 2000 Calories per day, or ~ 100W. Surely, Africa regards its problem as having much too little power, not too much; surely, they have little interest in pulling away from fossil fuel and replacing it with solar and wind. Undoubtedly, they will be building power plants burning fossil fuel, just as China and India are doing now. There is no stopping this.

In fact, mankind's main peacetime objective is to advance the spread of prosperity to all humanity, consistent with Judaism's concept of Tikun Olam: repairing the world to improve it. In the West, this was accomplished over several centuries by replacing the energy used since prehistoric times — human and animal muscle, solar and wind — with coal, oil, natural gas and nuclear power. The rest of the less developed world is doing this and will be doing so at an accelerated rate. For what one might hope is a steady state world population of ~10 billion, a per capita use of 3kW would mean a total power of 30 TW; 4kW per capita would mean 40. In short, a goal for humanity is to double or triple the power that the world now produces. There is no way to do this currently except by a major increase in the use of fossil and nuclear fuel. However, Section XII will very briefly discuss a long-term approach to a carbon free, sustainable nuclear energy structure.

There is a subgroup which gets very little publicity, whose publications are mostly excluded from the major scientific journals and media, but which vigorously disputes this conclusion that there is any kind of climate crisis, and that we must go to anything like net zero. Their literature making the point is voluminous, and this paper can only scratch the surface. This author has contributed to it, and this paper will certainly rely on his work.

VIII B. World temperature over the past 10,000 years

Many items in the media say that today's temperature is the hottest temperature on record. What they mean is that it is the hottest temperature in the modern era where temperature was measured by thermometers and other more sophisticated

instruments. However, there are methods of estimating temperature long before this. This section will give a quick tour of measurements, first in the modern era, and then for the 10,000 years preceding it. It will show that there were quite a few earlier time that were quite a bit warmer than today.

Figure (12) shows a temperature plot versus year, as measured by 5 reliable organizations. It is from a NASA publication (12).

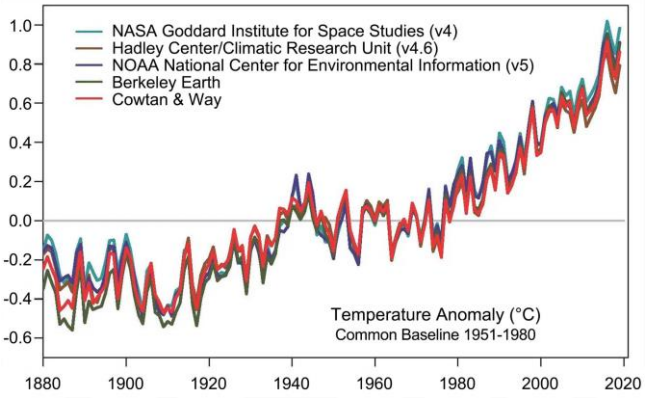

Figure 12: Average world temperature anomaly in degrees Centigrade, as measured by 5 reliable organization in the United States and Britain.

Another way to measure temperature is from space. In some ways this is likely to be a more reliable method, because it measures a large part of the world nearly simultaneously. Also, the satellite used a single suite of instruments to do the measurement; there is no worry about whether different instruments in different parts of the world, at different times, are properly calibrated with one another. These measurements are managed at the University of Alabama at Huntsville by Roy Spencer, John Christy and their team. Spencer's blog (13) is available, and it shows the satellite measurement every month. Figure (13) is their plot of temperature from the about 1980 the origin of satellite measurements, to July 2025.

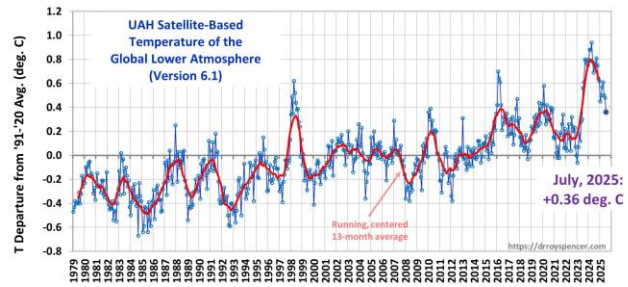

Figure 13: A plot of the UAH world temperature versus time from1979 to 2025.

Notice that each plot shows a temperature rise of about 0.6°C from 1980 to 2020. However, they are not necessarily the same wiggle for wiggle, but the fact that they are basically alike gives confidence to each measurement. However, Figure (12) shows a temperature rise of about 1.2°C from 1880 (the preindustrial level) to 2020. Notice that the peak temperatures in 1998 and 2016 appear more dramatically in the UAH data than they do in Fig (12). Also note that Figure (12) stops at about 2020 and does not show the peak temperature in 2024 that the UAH graph shows.

Both graphs give some credence to the fact that today is the highest temperature on record. However, the UAH graph shows that it took 18 years for a temperature to exceed the peak temperature reached in 1998, and 26 years before it could reach that peak again.

Now let us think about the temperature for earlier times. As there were no thermometers then, let us consider other ways including scientific, archaeological, and historical as discussed by the book *Climate History and the Modern World* (14), by the English scientist H.H. Lamb, who is regarded by many as the father of climate scientist. First consider the scientific ways of discovering earlier temperatures.

One way of measuring this temperatures in previous eras is with the ratio of ^{18}O to ^{16}O in the Greenland ice cores. About 0.1% of oxygen on earth is the heavier isotope. Water containing the heavier and lighter oxygen isotopes evaporate at a slightly different rates, a difference dependent on temperature (14, 15). Hence measuring the isotope ratio as a function of depth in the ice caps (i.e. as a function of year) gives a very good indication of temperature as a function of year. This is not a local Greenland measurement. The snow on Greenland is from ocean evaporation over a large part of the earth south and west of Greenland. It comes from water evaporated from the tropics and midlatitudes and carried by the prevailing westerly winds, and then carried up to the northern latitudes by general circulation. Hence it is an indication of the average temperature over a large patch of earth at those times.

Let us note that the differences in evaporation as a function of oxygen atomic masses are tiny. The fact that scientists and mathmeticians can unwind this data as a function of years, is a termendous credit to their resources and skills and those of their support stafts. Graphs of this ratio abound in a Google images search. Most are very choppy (15), but some also average over the rapid time oscillations and normalize the isotope ratio to temperature. One of these is in Figure (14).

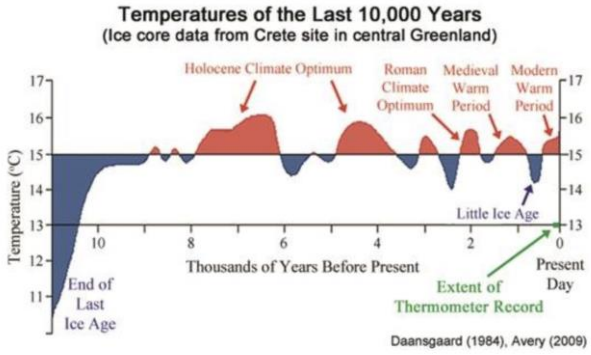

Figure 14: A smoothed plot of average temperature over the last 10,000 years as measured by the Greenland ice caps.

Notice that plot shows many times of higher temperature than we are experiencing now, including the Holocene Climate Optimum, about 4000 yeas ago, about the time of the biblical exoduce; the Roman climate optimum, about at the height of the Roman empire about 2000 years ago; and the Medieval warm period, about 1000 years ago.

We will now give evidence from each of these periods showing that they were warmer than today's Modern Warm Period.

Regarding the Holocene Climate Optimum, one uses the map of the limits of the northern forests today and 4000 years ago. Remnants of these northern forests are still in place, and their age can be determined accurately by carbon dating. However separating the remnants of the 4000 year old forest from everything else up there must be a enormous challenge. It is a tremendous credit to the scientists, explorers, and others working on this that they were able do so. Figure (15) below, redrawn from Fig. (46) of (14) shows the limits of these northern forests today and 4000 years ago.

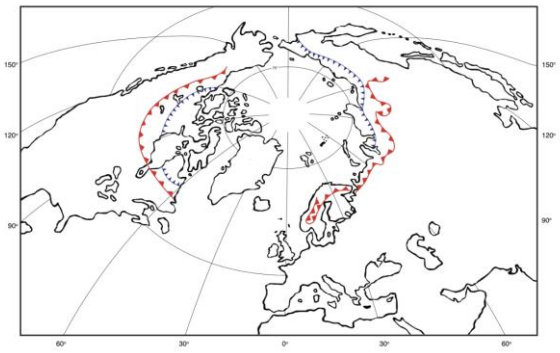

Figure 15: The red lines with the large triangles show the limits of the northern boreal forests today, and the navy-blue lines with the smaller triangles show the limits 4000 years ago. Notice that the earlier forests extended about 200 miles closer to the pole than they do today, indicating that the world was warmer then, just as the oxygen isotope ratios indicate. Clearly this not a local effect, but it involves the entire northern hemisphere.

Another example is the confirmed fact, established from both Roman historical records and archaelogical discoveries, that in the Roman Climate Optimum, the Romans had vineyards all over England (16), extending up to and even beyond Hadrian's wall. The map in Fig. (16) shows places where Roman pruning hooks, used in vineyards, were excavated in England. Also it shows where the remnants of six Roman vineyards were found. Virtually all the literature on Roman wine in England point out that Britain then was considerably warmer than today. For centuries after the Roman period, England was too cold to grow decent wine grapes. Grapes that survive now in say Quebec or Minnesota today are newer hybrid grapes, bred to thrive in cold climate (17).

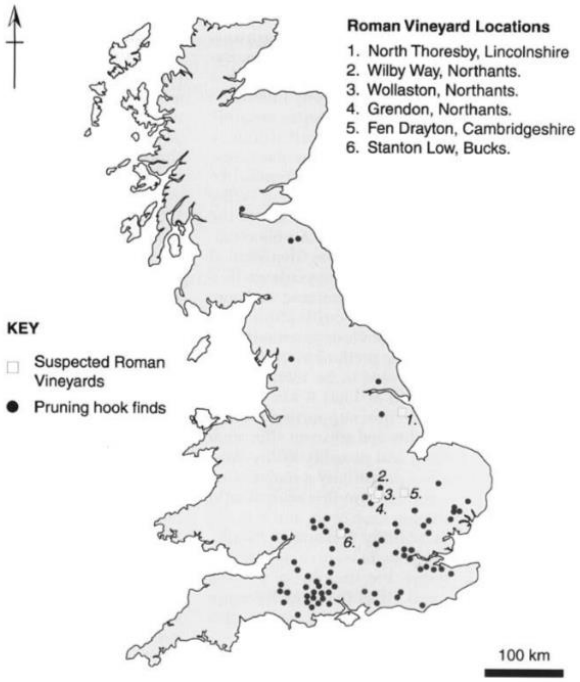

Figure 16: A map of England showing where the Roman's grew wine 2000 years ago, when England had a warmer climate than today.

Finally, in the Medieval Warm Period, the Vikings settled Greenland and for hundreds of years, grew barley there, something not possible to do today. Modern explorers found some of this barley in Greenland firmly establishing that it was grown there ~ 1000 years ago (18). Figure (17) shows recently excavated remnants of 1000 year old barley grain found in in Greenland in 2012. Certainly Greenland today is much too cold for cultivating barley.

Figure 17 : Remnants 1000 year old of barley excavated in Greenland in 2012, planted at a time when Greenland was much warmer than today.

In other words, there were much warmer periods than today during the course of human civilization. During these periods civilization flourished; the in between cold periods were generally disastrous (7). Also it took tremendous skill for these scientists, archaelolgists and historians to obtain these records. Those who found, analyzed, and recorded the information in this section, truly provide the public with the best that scientific, archaeological, and historical prorfessionals can offer the public.

VIIIC A quick tour through greenhouse radiation forcing

To continue we take a look at the physics of CO_2 in the atmosphere. If there is one CO_2 molecule and radiation coming up from the earth hits it at the right frequency, the molecule absorbs some radiation, gets into an excited state, nearly immediately decays and reradiates, sending some of that radiation back to earth and less of it into space. If there are many CO_2 molecules, the temptation might be to simply add up the result from each molecule, but that is incorrect. For one thing, no matter how many molecules there are, it can never reradiate in that frequency range more than a black body would at that temperature. In other word, the radiation at that frequency can saturate.

To calculate what is called a CO_2 driven radiative forcing, one needs a start date and a final date (or equivalently an initial CO_2 concentration and a final concentration). One then calculates the added radiation coming down to earth in W/m^2 from this added concentration (or equivalently the reduction of radiation going to space). These calculations are quite complex, but let us begin with the simplest aspect of them.

When radiation is impingent on a molecule, at a frequency for which it might excite the molecule, the likelihood that the molecule will be excited is characterized by what is called its absorption cross section g, which is essentialy a measure of how large the molecule looks to the radiation. Since the molecule absorbs, but hardly scatters the infrared radiation, we can assume it continues to move in a straight line. Every time the radiation excites an atom or molecule, it loses some of its energy. Let us assume there are n targets (for instance CO_2 molecules) per unit volume. If s characterizes the distance the radiation of frequency f moves on, the spatial decay of the radiation from absorption by the molecules Irradiance, I(f) (Watts per sterradian per meter squared per frequency), then follows formula $dI(f)/ds = -n\, g(f)\, I(f) = -k(f)\, I(f)$. If there are different molecules which might be excited, then ng(f) is the sum of the radiation absorption cross sections times the number density for each molecule, at that frequency.

However this is hardly the entire story; the molecule rapidly reradiates at some rate, and this must be taken into account. This turns our to be rather simple to do; quantum mechanics demands that at steady state, I must equal Planck value for radiation from a black body. Hence the equation for the irradiance at that freqeuncy as a function of distance s is

$$dI(f)/ds = -k(f)I(f) + B_f(f,T)k(f) \quad (2)$$

Here c is the speed of light, h is Planck's, and constant B_n is thePlanck value of the Irradiance for a black body

$$B_f = (2hf^3/c^2)\{\exp[hf/kT]-1\}^{-1} \quad (3)$$

Clearly the steady state value of I, where the left hand vanishes, is the proper Planck black body value. Integrating the total irradiance over frequency, it is simple to see that the total irradiance increases as T^4, just as Eq. (1) shows.

However at this point the mathematics and physics becomes much more complicated. First one must calculate s(n), which is the sum of the cross sections of every transition for every moledcule in the mixture at that frequency. Second one must account for the fact that the emitted radiation is emitted isotropically, and it is at least partially reabsorbed. This also complicates the calculation. A variety of scientists have made a variety of approximations to solve for the radiation; we do not discuss that here. However we do point out that once one has an approximate solution, it is a simple matter to find the radiation forcing by a particular greenhouse molecule by simply varying its number density and redoing the calculation. We now discuss the results of two such calculations.

The IPCC calculation is shown in their Sixth Assessment report (19). Their Figure (2.10), reproduced as our Fig (18), gives their calculated radiative forcing from 1900 (CO_2 concentration of ~280 ppm) to 2020 (~420 ppm); a forcing of ~1.75W/m^2.

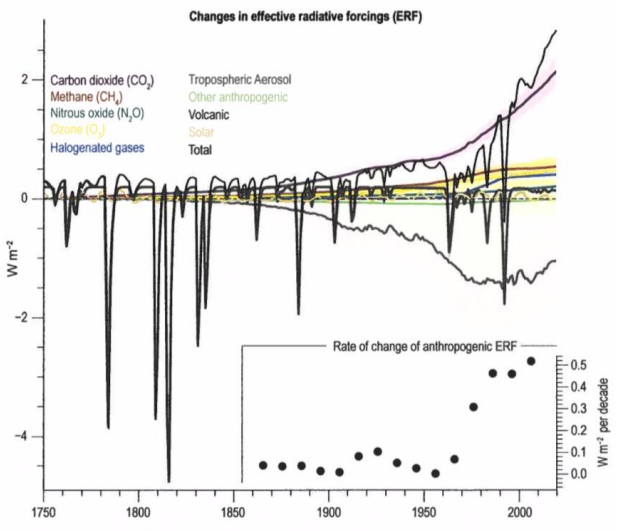

Figure 18: Calculated CO_2 and other greenhouse gas forcing as reported in the IPCC 6th assessment report (2021). Their CO_2 forcing from 1900 to 2020 is about 1.75 W/m^2.

Recently, Wijngaarden and Happer (W&H) (20) have made an extremely detailed calculation of the radiation transport considering the 5 most common greenhouse gas atmospheric impurities (certainly including water and carbon dioxide). Their main results are shown as Fig. (19). The smooth blue curve is the black body radiation of the earth at 287 degrees Kelvin. This is what the earth would radiate back to space if the atmosphere had no effect. The greenhouse gases tend to make the actual curve lower than the black body curve, meaning that the earth is reabsorbing some of its radiation, heating the planet. The green curve is the radiation with all greenhouse gases except CO_2 present. The black curve is the radiation with 400 parts per million of CO_2, approximately today's concentration. The red curve is the radiation if the CO_2 concentration were doubled.

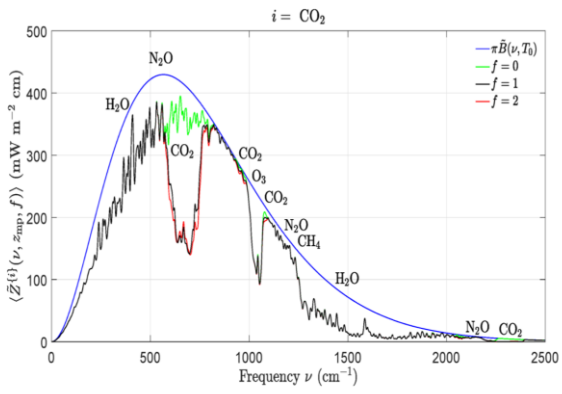

Figure 19: The Planck radiation curve (blue), with all greenhouse gases except CO_2 (green), with today's concentration of CO_2 (400 ppm, black) and with double today's concentration (800 ppm, red).

W&H find a radiative forcing of ~3 W/m^2. The W&H calculation and the IPCC calculations cover different time periods, or equivalently, different initial and final CO_2 calculations, so it is difficult to determine the extent to which they agree or disagree. However the results of the two calculations are not very different. In other words, as regards the strict scientific calculations; the calculation of the believers (19), and skeptics (20), are not very different. It is the polititians, media personnel, celebreties, and some scientists who have wildly different interprations. We now attempt to interpret these differences.

Let us consider the radiative forcing as compared to the average radiation from the sun impinging on the upper atmopshere of the earth, the averaging being over day and night and solar angle. This is ~340W/m^2. Hence the radiation forcing, from each calculation shows a forcing of less than 1% of the solar radiation.

But how much of this extra radiaion heat the earth? This is a complicated calculation which depends on how the earth's atmosphere reacts to the small extra forcing. WH (20) estimate increasing CO2 concentration from 400 to 800 ppm, would probably heat the earth by something in the neighborhood of 1^{o}C. Others have made slightly different estimates. Lamb, in his classic book (14) also discusses heating by increasing atmospheric CO_2, but does not mention it until page 333. Clearly he does not see added CO_2 as having a major effect on climate. In fact his estimate of the heating by increasing the CO_2 level from 400 to 800 ppm is about 1.5^{o}C, not much different from the WH estimate. Neither Lamb, nor WH, nor Judith Curry regard this added heating as a catastrophe.

Reference (19) admits that the forcing is not sufficient to heat the world very much, but it claims that this small amount of heating will have a much larger effect. Its logic is that the small added heating will cause oceans to not only outgas additional carbon dioxide, but also to increase evaporation; thereby increasing not only the carbon dioxide in the atmosphere, but also the water vapor, a much more potent greenhouse gas. It speculates that the forcing from the carbon dioxide alone must be multiplied by some factor greater than unity, perhaps 2 or greater (19) so as to produce much more heating than the added radiative forcing alone.

Let us give a few simple comments on some to these assertions. First, many of these estimates of heating ignore the radiation law, Eq. (1-3). While it shows that the radiation scales as the temperature to the fourth power, in reverse, its inverse shows that the absolute temperature, scales as the fourth root of the radiation. Since all calculations show that the added radiation forcing is less than 1% of the incident radiation, the simple radiation law shows that the change in temperature should scale as the fourth root, or by about 3/4^{o}C, since the earth's temperature on the Kelvin scale is ~ 300^{o}K. This heating is about the same order as other estimates, but somwhat less. This is not necessarily an acccurate prediction, after all the atmosphere is quite complicated. However it seems to this author, that this very simple well

established theory should at least be the starting point for estimates of heating. Yet as far as this author is aware, those estimating the the climate effects of this radiation forcing ignore this.

Next let us consider the idea that the added forcing could start a chain reaction which adds an instability. In other words, IPCC;'s assertion is that heating from the small radiative forcing should be multiplied by some factor, at least 2 (19). However, the added heat to initially evaporate more of the ocean and outgas additional CO_2 does not have to come from added CO_2 caused heating. It can come from any other physical process that causes an initial heating, and the logic is the same. Figure (14) shows many times when some process or other caused some initial heating of the earth. At each time, there would also have been more CO_2 outgassing, and more evaporation from the oceans. However, there was never runaway heating, but rather the oscillatory behavior as demonstrated in Figure (14)

Furthermore, such a positive feedback violates LeChatelier's principle, which states that that if a dynamic equilibrium is disturbed by changing the conditions, the position of equilibrium shifts to counteract the change in conditions. Let us consider this for the climate system, which is certainly a very dynamic system. Say that a bit of added radiation comes into play, which on its own would increase the temperature by 1 degree. But radiation is not the only dynamic process controlling the temperature, other processes do as well. Who knows how the atmosphere will react. In addition to more evaporation and outgassing, the atmosphere could alter its density profile, temperature profile, entropy profile, turbulence level, cloud content, aerosol content, chemical composition., it has many, many ways of reacting to the added radiation. Le Chatelier's principle then says that the net effect of these other degrees of freedom, is to fight back and partially counteract the change generated by the added radiation, so that that temperature rise would be less than one degree. According to this principle, the multiplying factor for CO_2 heating should not be greater than unity, but less. Yet this important principle seems to be ignored by the IPCC.

If the world keeps using fossil fuel at 10 TW, as it does today, this adds about 2 ppm of CO_2 to the atmosphere per year. In other words it would take 300 years to increase the CO_2 concentration to 1000 ppm, (which this paper currently regards as a tolerable upper limit). It would likely increase the temperature by a degree or two. Even if the world doubles its use of fossil fuel, which seems likely, there is still considerably more than a century to make a transition to nuclear power, aided perhaps by fission and fusion breeding.

Surely human civilization can adjust to this degree or two increase in temperature, which might not even occur, over a century or two; just as it adjusted to the one degree temperature rise over the last century. There is absolutely no reason to think that there will be a climate catastrophe, as the false climate prophets guarantee.

VIII D While the climate always has, and always will change, there is no climate crisis

The title here is the title of an article in a scientific journal by the author (21). It has over 30 references. In this section and the next, references will be minimized somewhat, given that many of the reference notices have been published elsewhere. This paper had not been published in one of the major scientific journals like the 'Science' journals, the 'Nature' journals or even the American Physical Society (APS) journals. The author's experience, and that of many others, is that papers like this are excluded from the normal scientific journals. Many skeptics of the standard climate dogma understand this and no longer even attempt it. For instance, William Happer, one of the main scientists skeptical of the standard dogma on climate change, publishes his work mostly in arXiv (20). In fact, attempting to spread the paper on social media, can get your paper censored, as (21) was, as shown in Fig (20):

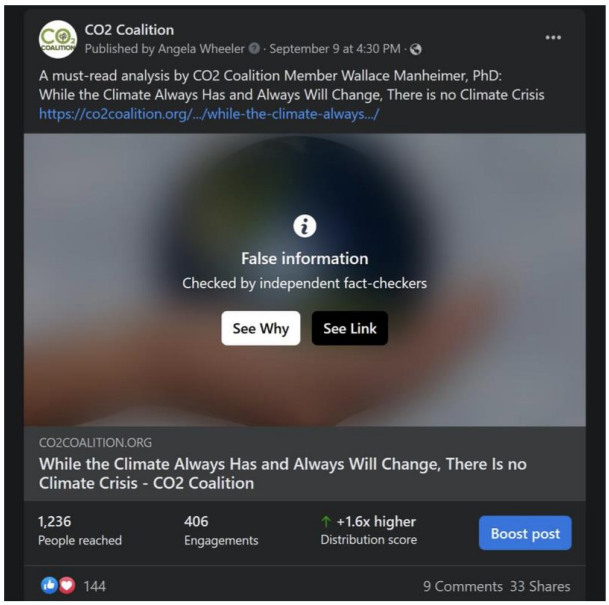

Figure 20: The censoring notice by *Twitter* regarding (21), as the CO_2 Coalition attempted to spread it on social media.

However, despite such difficulties, available work, by well-established, well-known scientists expressing skepticism is voluminous. Any paper, like (21) or this can only scratch the surface.

Some of this work has found its way into books by top scientists like Steven Koonin (22), a top-level physicist who has held major positions in universities, the national academy, government, and think tanks. Koonin's book also discusses the role of numerical simulations of the heating of the atmosphere and makes the point that the simulations are far from accurate or even believable. Also there are books by

Gregory Wrightsotne (7), a geologist who is currently the leader of the CO2 coalition, an organization originally founded by William Happer (this author is proud to be a member); environmentalists, like Patrick Moore (23), who founded Greenpeace and then resigned from it when it became too radical for him; Michael Shellenberger (24), who founded the think tank 'Environmental Progress'; Alex Epstein (25), trained as a philosopher but has jumped into the fray as an expert on energy via fossil fuel; and economists like Bjorn Lomborg (26), a man Time magazine characterized as one of the 100 top thinkers on earth. Lomborg is the person who originally coined the term 'climate industrial complex'. In addition, Richard Lindzen and William Happer, two major members of the National Academy of Science, who have each studied this issue for a decades, has put out a definitive study, published by the CO_2 Coalition (27). These authorities have far too much knowledge, experience, and reputation to ignore, as the 'false prophets' of climate change do.

This author (making no claim to be in the league of those just mentioned) has also published a book called *Mass Delusions, how they harm sustainable energy, climate policy, fusion and fusion breeding* (28), available on Amazon. The Amazon announcement (i.e. ad) of it has five very positive editorial reviews of the book, two by members of the National Academy, 2 by senior professors from Princeton University, one from a leading professor of a Dutch University and founder of the Clintel organization, and one by a leaders of the Lawrence Livermore National Laboratory (LLNL) program on laser fusion.

Furthermore, it has something these other books, do not have. First it treats the climate and energy dilemma in as single topic. The goal is to achieve sustainable energy for the entire human family, i.e. tikum olam, so the entire human family can all live the same way as those us in the OECD countries. It regards the climate dilemma as a gigantic roadblock to achieving this goal. The book is divided into 5 sections on energy, climate (this section has 41 references), wind and solar, fusion, and fusion breeding, the last two of which will be discussed only very briefly here. The book also is more emphatic than these other books. It does not regard going to wind and solar power as something that will just raise the price of electricity by this or that percent, as one might read in for instance the Wall Street Journal. It regards going net zero as doing something that can destroy a civilization.

As mentioned, with so much information out there, this section can only scratch the surface and does so in a way that is rather unusual and hopefully original. This author claims that the 'prestigious scientific societies' have all fallen for this 'Mass Delusion', which this author sees as initiated by those he calls false prophets. These societies have put out statements regarding the climate crisis which are so obviously false, that it is very easy to expose them. This author has attempted to do this with a scientific article, this one with 66 references (29), two op-eds in more popular media (30, 31) and a Tom Nelson podcast (32). The remainder of this section will give just a few examples from this work. Many more are in the cited references. References to all information given here are in (29).

First consider the APS. Here is a portion of their statement on climate change:

Multiple lines of evidence strongly support the finding that anthropogenic greenhouse gases have become the dominant driver of global climate warming observed since the mid-twentieth century.

It is a simple matter to show that this statement is indisputably wrong. Just look at the temperature graph in Fig. (12), the temperature as measured by 5 very competent agencies. As the graph is rather jagged, it is difficult to get a precise measurement of the rates of change of temperature, but it is not difficult to see that the temperature rose from about −0.5℃ to about +0.2℃ (compared to the zero point on the graph) in the 30 years from 1910 to 1940, or a rise of ~0.23℃ per decade. This was a period during which there was little increase in atmospheric CO_2. Then from 1940 to 1980, the temperature bounced around a constant value, the zero point of the graph as CO_2 was increasing. However, from 1980 to 2020, according to Fig. (9), the CO_2 level in the atmosphere rose from about 335 ppm to 420, about a 25% increase. During this time the temperature rose from +0.2℃ to 1℃, or at a rate of ~0.2℃ per decade. This is just about the same rate of rise as from 1910 to 1940 (but actually is a bit less). One cannot deny that the APS statement "anthropogenic greenhouse gases have become the dominant driver of global climate warming" is indisputably wrong.

Perhaps the APS could have said that the earlier temperature rise had lasted 30 years, whereas the current one has been already lasting 40 (assuming they made their statement in the last couple of years), and that that could be an indication that CO_2 induced warming has been playing at least some part. That conclusion might or might not ultimately prove to be correct. Hence one could not simply dismiss it, as one can their actual statement. Their actual statement said that "anthropogenic greenhouse gases have become the dominant factor of global climate warming since the mid-twentieth century". How can they say this when whatever was driving the warming between 1910 and 1940 was just as dominant? Their statement is wrong, it gives the public wrong information, and it motivates policy makers not to act in accordance with the best science, but to make wrong policy choices. They should not have made such a statement, and they should change it immediately.

Now let us consider the American Chemical Society (ACS). Its statement on climate contains the assertion:

Extreme weather and related events, such as floods, droughts, hurricanes, heatwaves and wildfires, are increasing in frequency and intensity threatening Americans' physical, social, and economic well-being.

Their statement that floods, droughts, hurricanes.are increasing in frequency and intensity. is incorrect. Showing this is a very simple matter. All it takes is an internet search in the NOAA, NASA and EPA web sites to find the actual data. The EPA records drought and flood measurements with what is called the Palmer Drought Severity Index. For a particular region, this gives a number characterizing the drought or flood possibility from a variety of measurements, soil moisture, temperature. A positive number means a wet time; negative, drought. An index of plus or minus 3 or more indicates a rather severe drought or flood period. Figure (21) shows the Palmer Drought Severity Index for the contiguous United States from 1890 to 2020.

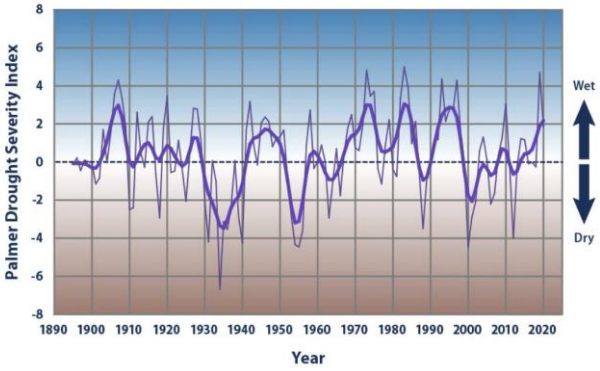

Figure 21: The Palmer Drought Severity Index for the contiguous Unites States from 1890 to 2020. The light black line is the instantaneous value; the heavy blue line is a 9-year average. Notice that the only periods of extended severe drought are the mid 1930's and mid 1950's. There is no extended period of severe flood, but the early 1970's, 1980's, and 1990's come close. There is certainly no increasing frequency and intensity of either droughts of floods in the last 60 years, contrary to the ACS assertion.

Now let us consider hurricanes, which the ACS asserts are increasing in both frequency and intensity over the period of increasing atmospheric CO_2. This data has been carefully accumulated by both the EPA and NOAA. Figure (22) from NOAA, is a graph of the sum of what NOAA calls the accumulated cyclone energy for of each Atlantic hurricane for that particular year. This measures the total energy of the hurricane, a function of the wind strength, the total size of the hurricane, and the length of time it lasts.

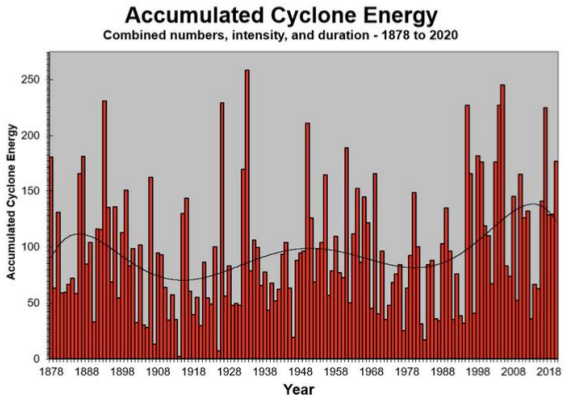

Figure 22: A NOAA plot of the accumulated cyclone energy of each Atlantic Hurricane per year from 1878 to 2018. The black curve is a running 9 year average

While the black curve is mostly oscillatory, there has been a small increase in its recent maximum. This is hardly indicative of an onrushing climate crisis. Furthermore, we should also keep in mind that before 1920, there was no aircraft monitoring of hurricanes in mid ocean, and before about 1975 there was no space-based measurements of mid Atlantic hurricanes. It is likely that the measurements before 1975 missed some of these hurricanes. Almost certainly, the graphs there should have been somewhat higher at the earlier times, although there is no way of knowing by how much. Certainly, the graphs would have equalized to some extent.

In any case, the ACS statement that Extreme weather and related events, such as floods, droughts, hurricanes,. are increasing in frequency and intensity is totally incorrect. There is not a shred of evidence from NOAA and EPA measurements that this statement is true. This is not a controversial statement on the part of this author. It results only from a comparison of their statement with easily available and reliable NOAA and EPA data. To reemphasize, this data is not at all difficult to find. One does not have to be Sherlock Holmes to deduce it, not only is Dr. Watson capable of doing so, even their housekeeper, Mrs. Hudson is as well. In publishing such a statement, the ACS gives the public wrong information, and it motivates policy makers to make wrong choices, not in accordance with the best science. The ACS should have done some due diligence before coming out with these statements. Even at this late date they should change it.

Finally, we will consider the American Geophysical Union (AGU) statement on climate. As with the other organizations, it is a simple matter to show that their statements are incorrect. One thing they say is that:

Many other changes related to warming and increased atmospheric CO_2 concentrations have already been observed and are expected to continue: .changes in the growth and nutritional value of land plants.;

They say that the excess CO_2 in the atmosphere changes the growth of plants. Surely, they mean that it harms the growth of plants, otherwise why would they advise the world to transition away from energy sources which add CO_2 to the atmosphere. The AGU is right in one sense; the added CO2 does change the growth of plants. However, they got the sign wrong. There is overwhelming evidence that added CO_2 helps plants as it is important nutrient for plants. There is no denying it. Photosynthesis takes CO_2, water, and sunlight, transforms it into plant material, and expels oxygen. NASA has measured, from space, the increase in greenery on the planet. In the era of space-based observations, the plant cover has increased considerably. Figure (23) is a NASA generated color-coded map of the earth. It showed that the greening represents an increase in leaves on plants and trees equivalent in area to two times the continental United States.

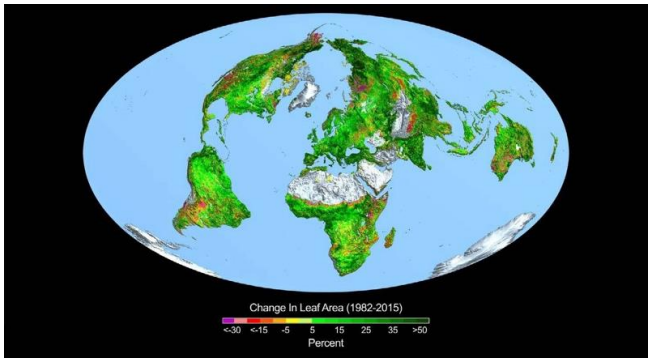

Figure 23: A Nasa generated color coded map of the earth, showing in green the area with added leaf cover between 1982 and 2015, a time when CO_2 in the atmosphere increased from ~ 340ppm to ~380.

To a scientist looking at this image with little knowledge of the details of how it was acquired, it looks like an amazing accomplishment, not only as regards science and engineering, but also organizational management. It must have taken the coordination of dozens of first-rate scientists and engineers (at least). Many of them are likely members of AGU. But instead of AGU taking pride in this tremendous accomplishment, in part by their members, they denigrate the work of their members, by saying changes in the growth and nutritional value of land plants,. implying just the opposite of what their phenomenal image demonstrates. The organization should be ashamed of itself.

The AGU climate statement also asserts:

Humanity faces profound challenges due to the current and projected impacts of climate change.[xv] The changing climate will increasingly threaten food.security.

Food supply is something which has been measured worldwide for decades and graphs of it abound on the internet. Figure (24) is a typical one from the Financial Times

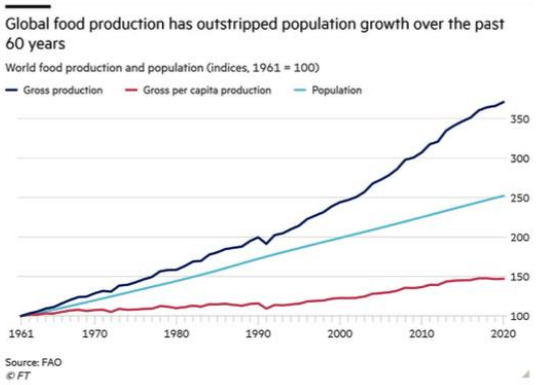

Figure 24: A graph of world food production (dark blue), world population (light blue) and world per capita food production (red)

Clearly excess atmospheric CO_2 has not yet threatened food production. If anything, the excess CO_2 has probably helped food production. Not only is the excess CO_2 food for plants, but the slight warming we have experienced recently, possibly in part due to the excess CO_2, has extended the growing season in the earth's temperate regions.

So here we go again, other statements by a prestigious scientific societies, which are obviously false. To summarize, this section has made the case, made by many, many others, that there is no climate crisis, neither now nor in the foreseeable future. However, this section does introduce a new and different slant to it. It examines statements made by prestigious science societies which predict that an imminent climate crisis is on the way, and we had better act now! Yet, as unbelievable as it sounds, these statements are *all wrong*! Instead of these science organizations propagating the false information of an oncoming climate crisis, they should realize that this is very insulting to their members. With great effort and expertise, these members have come to exactly the *opposite conclusions*. The slightest bit of due diligence on the part of these societies would tell them that their statements are incorrect. Yet the officials of these societies are very smart people. One cannot help but be mystified; how can people so smart do something so dumb?

These false statements have been on the books of these societies for decades and have never been corrected! Why not? There are as many explanations as there are scientists skeptical of the current climate dogma. Some say that is a way for these societies to amass power in their sphere. Some say it is a way to protect their funding. William Happer has shown a funny slide in a variety of talks of 3 pigs feeding at a trough, and under it is a saying by Pushkin: "Put out a trough and the pigs will come".

This author does not find any of these very convincing, he does not think the society officials are that power hungry and money grubbing. He clings to the belief that these society leaders are capable, honorable, and decent people. The most logical explanation I can think of (it is not logical, it is only the

most logical one I can think of) is that they are all suffering from a mass delusion, and possibly even brain washing, brought on by a small evil cadre of false prophets. I'll end with an often-quoted statement by Richard Lindzen:

"What historians will definitely wonder about in future centuries is how deeply flawed logic, obscured by shrewd and unrelenting propaganda, enabled a coalition of powerful special interests to convince nearly everyone in the world that CO2 from human industry was a dangerous, planet-destroying toxin. It will be remembered as the greatest mass delusion in the history of the world- that CO2, the life of plants, was considered for a time to be a deadly poison."

IX: Some problems with wind and solar

The author has written about wind and solar in an open access paper (33) dealing with wind, solar and fusion. It had about 40 references on wind and solar (out of ~ 70 all together). The other part of the paper involved fusion, and what is called fusion breeding, potentially sustainable carbon free solutions to the energy climate dilemma. Also, Section 3 of *Mass Delusions* (28) dealt with wind and solar and had 45 references (Sections IV and V dealt with fusion and fusion breeding). Accordingly, this section will be mostly a pictorial review, with a perspective at the end. The discussions and images concern mostly California, Texas, and Germany, places that have made a large commitment to solar and wind power. Subsections are marked by boldface.

There are several things to remember when dealing with solar and wind power. Often when either solar or wind is quoted in major media, the numbers given are for the maximum solar power, i.e. when the sun is at midday on a hot summer day, and analogous for wind. The average solar and wind power are typically from 1/5 to 1/4 of these maximum values. Here we deal only with average solar or wind power, not the maximum when conditions are ideal. It is also worth noting that the average solar power received on the earth's surface, is ~ 250Watts/m^2 or 250 MW/km^2. The typical efficiency of modern solar panels ranges from ~ 15-20%. About 1-2% of solar power is converted to wind power, so wind farms, generating the same average power as solar farms, will cover much, much more land area. The maximum efficiency of a wind turbine is 60% occurring when the wind is blowing at the optimum speed and direction.

IXA: Wind and solar take up a tremendous amount land, land which can be used for nothing else or little else.

To power the entire United States electrical use, ~400 Gigwatts (GW), with wind power would mean turning an area like the entire state of Nebraska into a wind farm. However, that is only to replace the electrical power the country uses. All power that the US uses for all its needs; transportation, heating, industry.is closer to 2 terawatts (TW). The country would have to fill up the entire great plains, from North Dakota to Texas with wind turbines, to generate enough electricity from the wind to power the entire country. Obviously, this will never happen there are far too many other uses for this land. Look at Fig. (25).

Figure (25) Top: A small town in Germany. Whatever scenic, tourist, or agricultural value it has obviously been greatly degraded or ruined. This image is the cover of *Mass Delusions*. Bottom Altamont Pass California. Clearly this enormous amount of land can be used for nothing or little else.

IXB: Wind and solar power are not reliable.

There are numerous stories about the unreliability of solar and wind power. The most obvious problems are weather related. However, there are other issues regarding its effect on the stability of the grid. There was the Spanish, Portuguese and partial French total blackout on April 28, 2025. This blackout had a very sudden onset and lasted for many hours; suddenly

there was no power. People were stuck in elevators and underground trains for hours, with no knowledge of what was going on, and no help on the way. It is likely that at least some deaths resulted. Naturally, most of the standard media blamed everything but solar and wind power, which was operating then with no weather impediment. However, Chris Wright, the American Secretary of Energy, a man with extraordinary knowledge of the entire energy area, believes that one of the main causes was the dependence on wind and solar (34). What is not controversial, is that the blackout occurred when wind and solar were providing over 70% of Spanish electrical power.

Figure (26) is an illustration of the weather vulnerability of wind and solar power.

Figure (26) Winter 2020-2021: Frozen wind turbines in Texas, Ice covered solar panels in Germany, and the effect on German school children doing their homework.

California has depended greatly on solar and wind and therefore suffers frequent blackouts and brownouts. Here is an excerpt of a Trip Advisor review of a hotel in the wine region of California, an area which has an important wine and tourism industry:

I. HOTEL DOES NOT HAVE GENERATORS

Review of **The Estate Yountville**

Reviewed May 11, 2025 This is a beautiful property and overall a charming hotel. Buyer beware if the power goes out! It is unacceptable for a hotel of this stature to not have generators. The power was turned off by PG&E for 4 hours during our stay. I was told this happens frequently in California when it is windy. The hotel should have plans in place for guests. Guests pay for a luxury experience and bottom line no electricity is not acceptable.

In December 2024 my wife and I were in San Diego. The hotel warned us that that from one to five PM the power would be turned off except for elevators. The hotel had a main generator, but it and the power had to be turned off for generator maintenance (it went back on at 3:30 PM).

On seeing this, one cannot help but think of Richard Feynman's comment on the Challenger disaster: "For a successful technology, reality must take precedence over public relations, for nature cannot be fooled."

IXC: Lithium-ion batteries have a very significant fire danger, and there are other dangers of wind and solar as well

These batteries, which power electric cars have a very significant fire danger. These fires are very difficult to extinguish with conventional firefighting means. Often the only strategy is isolate the fires to the extent possible so they can burn themselves out. There was a large such fire in Monterrey CA in a battery factory, in September 2022 which was very difficult to put out. Nearby residents were warned to stay inside. Underground garages in Germany now forbid electric cars because of this danger. Two cargo aircrafts, 747's carrying a cargo of these batteries which caught fire, were destroyed in midflight over Korea and Dubai, killing the crews. All airlines now forbid lithium-ion batteries in the plane's luggage compartment, as any airline passenger knows, see Figs (27 and 28).

Figure 27: It is not only the lithium-ion batteries in the luggage compartment that carries risk. Luckily this plane (in China) was still on the ground when the fire broke out.

Figure 28: A large freight aircraft with a load of lithium-ion batteries burning on the ground (fortunately not in the air).

Electric buses are particularly vulnerable. In July 2022, an idle electric bus parked in Hamden CT spontaneously caught fire, as shown in Fig. (29).

Figure 29: The Hamden fire department had no options other than to let the fire burn out.

When electric buses are parked next to each other, the fire can easily spread from one bus to another

Figure 30: Bus fire sequence in a bus garage in China

These batteries erupt in fire spontaneously both when they are putting out energy and when they are idle.

There have also been stories in the media of the danger these large wind turbines present to large migrating birds. However, this is rather minor compared to what appears to be much greater danger. The author and his wife just completed a cruise around the British Isles. In the North Sea, the ship passed not too far from a very large ocean-based wind farm. There must have been a least 100 wind turbines, likely more. From the distance these looked like the gigantic 4 MW turbines, each as tall as the Washington Monument. Don't these present a real danger to maritime navigation? If our ship, or any other ship crashed into one, the damage would be enormous. A ship crashing into one of these giant turbines would likely have about the same result as the Titanic crashing into the iceberg.

IXD: Solar and Wind use a tremendous amount of material

Simply looking at Fig. (25) showing all those wind turbines, surely all together producing considerably less that one gigawatt of average electric power, one would think that wind and solar require a great deal of material. That impression is correct. There have been studies of the number of different materials required for different energy power sources, shown in Fig. (31).

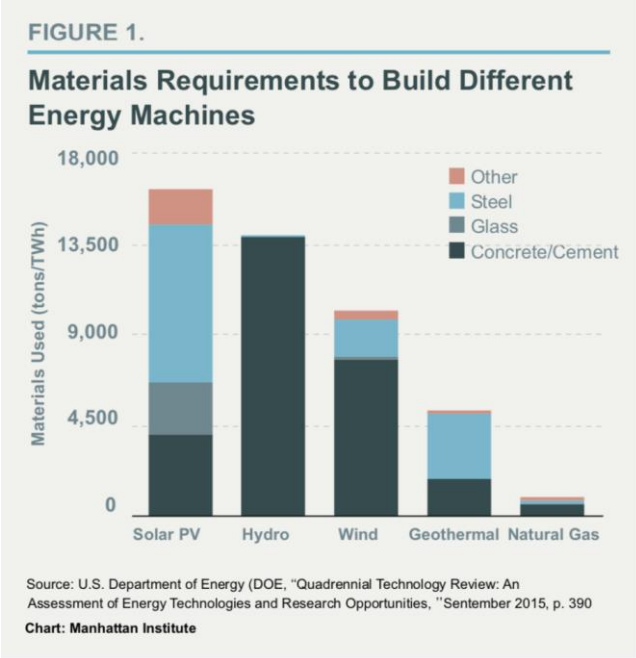

Figure **31:** Relative amounts of material needed per unit of power, to build a variety of power plants. Notice that more material is needed for solar and wind than for others, except for hydro, which needs a great deal of concrete.

Notice that wind and solar especially need considerably more 'other' material than the alternatives. These are the rather exotic materials, rare earths, cobalt, lithium . These are available mostly in places like western China, and Africa, places where the United States has little if any access. One might surmise from such a graph, that wind and solar will have significant negative environmental impact in the areas where these materials are mined. Furthermore, if there is a large-scale transition to wind and solar, the need for these materials could also have major impacts for national security.

IXE: There are serious environmental problems with solar and wind

Solar and wind require many materials and elements which are often regarded as exotic. These include many rare earth elements, currently available mostly in western China and Africa, under who knows what environmental and labor conditions. There are stories in the media of child labor, as well as nearly slave labor being used. It is certainly likely that the mining is not done with strictest environmental regulations, but this is difficult to know for sure. Simply the vast amount of land used for solar and wind in the United States must be considered an environmental risks, as fig. 25 suggests. This land could almost certainly be used more profitably, and environmentally soundly for other purposes. Then there is the problem of what to do with the solar panels and wind turbines when they have outlived their lives useful lives.

Solar panels contain many materials which are both water soluble and poisonous to humans, so when they wear out, they should not be buried in landfills; but often they are anyway. Some have proposed sending warn out solar panel back to Africa, we pay them enough, let the Africans worry about them. First, we in the west wreck the African environment by mining these elements when it would be too environmentally harmful to do so ourselves. Then once they are worn out, send them back to Africa, and let the Africans dispose of them in their landfills. Talk about the morality of going to wind and solar! However, even if we have a perfect, moral way do dispose of warn out solar panels, there is always environmental danger. Figure (32) is a photo of a destroyed solar farm in Puerto Rico.

Figure 32: A solar farm in Puerto Rico after Hurricane Maria

Clearly there is danger to the ground water there.

For worn out windmills the problem is different. There is always the temptation for the wind turbine company to just walk away and leave the warn out turbines there. This has happened numerous times. Figure (33) shows some warn out wind turbines left standing in Texas and Oklahoma.

Figure 33: Worn out wind turbines near Harlington Texas in 2017, and in the Oklahoma pan handle in 2021.

Warn out wind turbines do have some salvage values, although in many cases it is less than the cost of tearing the turbines down when they wear out. It is certainly tempting for the wind company just to walk away, when their wind turbines wear out. There are numerous examples of this as Fig. (33) shows. As Tom Lehrer sang in his song about Werner von Braun:

Once rockets go up, who cares where they come down,

That's not my department says Werner von Braun

Perhaps that is the way the wind company feels. Taking down run down wind turbines is not their department. They are too busy saving the world.

While there may be some salvage value for the turbines, there is one thing for which there is no salvage value, and this is the base, 500 tons of concrete and steel, as in Fig (34).

Figure 34: Once the wind turbine wears out, its base is not going anywhere. A thousand years from now, our descendants will be walking around areas like this and wondering what the heck were their primitive ancestors thinking when they put up so many of these useless monsters of steel and concrete?

IXF: Solar and wind turbines provide very expensive electrical power

It is argued that solar and wind power will be cheaper than gas, coal, and nuclear. Maybe someday, but not today. It is simple to see this in the historical record of the cost of a kilowatt of electrical energy in Germany, mostly wind and solar; France mostly nuclear; and the United States, a bit of everything. In about 2000, Germany decided to embark on an energiewende, a German word meaning energy transition to solar and wind. As one result, the price of electricity in Germany skyrocketed, see Fig (35).

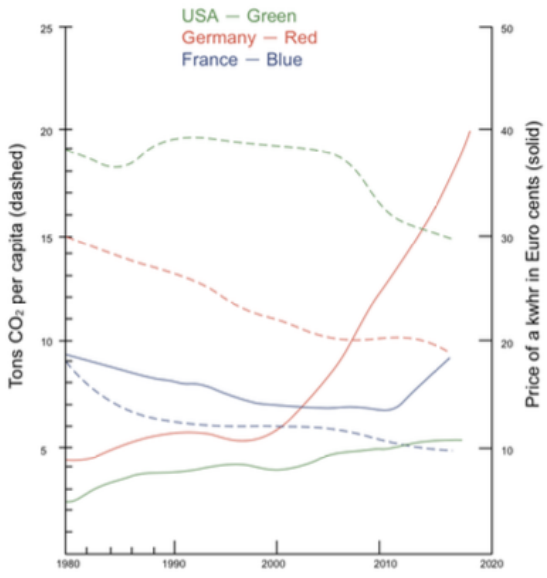

Figure 35: A plot of the cost of a kWhr of electric energy in Germany (mostly solar and wind), France (mostly nuclear) and the United States. Also plotted are the per capita CO_2 emissions for these three countries.

Even the small amount of electric power provided today by solar and wind shows that the cost is considerable. Proponents of the transition to solar and wind admit that the cost will be high. Sources, which advocate the transition, estimates its cost would be many hundreds of trillions of $$$ (35,36). Other cost estimates are higher still.

Sun and wind might be free, but converting this 'free' power to electricity is very, very expensive.

Wastage on this scale can destroy a civilization. Other countries hostile to the west are not fooled by our climate scare. China is building new Gigawatt electrical (GWe) coal plants on a nearly weakly basis, so is India. However, the west is largely dependent on China for the materials needed for solar and wind. The Chinese do not mind; likely they see themselves as getting rich while selling us the rope to hang ourselves.

We may be on the verge of wasting more than $275T, all to build a power supply for when the sun shines or the wind blows, in other words 'half a power supply'. This reminds one of another case where such great waste produced an enormous tragedy. France, confronted by a powerful, hostile neighbor, built a gigantic white elephant in steel and concrete; 'half a wall'! The comparison is apt. Because of this enormous error, France was basically enslaved for 4 years. Fortunately, the allies, at great cost, managed to save them.

But if we go to net zero, ruin our economy and military, and hostile forces move in, as they will, who will save us? This author does not see any white knight coming in to save us from such a civilization killing mistake. **To summarize, going to net zero with solar, wind, and battery backup, would be for the United States and the west a scientific, technical, public safety, economic, national security, and environmental disaster.**

To plagiarize from Lindzen:

"What historians will definitely wonder about in future centuries is how flawed logic, obscured by shrewd and unrelenting propaganda from false prophets, actually enabled a coalition of powerful special interests to convince nearly everyone that the world's power infrastructure, which basically works, must be replaced with another which will fail, and along the way would likely destroy modern civilization. It will be remembered not only as the greatest mass delusion, but also as the greatest con in the history of the world- that snake oil salesmen at one time convinced the world to spend ~$275T and more, to throw out its working power system and replace it with a harebrained Rube Goldberg gadget".

X Brain washing and mass delusions

Richard Lindzen has brought up the idea that a mass delusion is behind the persistence of the climate dogma. It has sounded very reasonable to this author, and he has named his book after it. But how does such a mass delusion get started? Why does it seem to have so much strength? This author doubts that anyone has a very convincing answer to this, but this brief section will explore one possibility, brain washing. In Section VI, this paper concerned the McCarthy witch hunt and mentioned the motion picture '*The Manchurian Candidate'* as an analogous situation.

The Manchurian Candidate had an answer to how an assassin could be controlled by extreme brain washing. The movie presented it as dream sequence, which this author regards as one of the truly amazing examples of film making. An American platoon in the Korean War was captured by the Chinese, and sent to a lab in Manchuria, where they were subject to brainwashing at the hands of the world's expert Dr. Yen Lo, played by actor Khigh Dhiegh. He often describes his evil with a sense of humor.

Dr Lo had the captured American platoon sitting an auditorium with an audience of Russian and Chinese generals. But because of his brain washing, the platoon thought that they were sitting in a ladies garden club meeting in New Jersey. Figure (36) shows this.

Figure 36: Top: The American platoon, totally under the control of Dr Lo, in a Chinese auditorium in Manchuria; Bottom: What the platoon could see, namely that they were at ladies' garden club meeting in New Jersey.

Dr Lo dismissed any skepticism of his brain washing techniques, and to demonstrate his prowess, had one of the soldiers murder another in front of the audience. As he said, their brains were not only washed but were thoroughly dry cleaned.

One aspect of his treatment was that the platoon's feeling for its most hated member, Raymond Shaw (Lawrence Harvey) was brain washed into love. Whenever any one of them was asked what they thought of Shaw, their answer, given robotically, was always the same word for word:

"Raymond Shaw, is the kindest, bravest, warmest, most wonderful human being I've ever known."

Does this have any relevance to the mass delusions regarding the climate dilemma? It is hard to believe it could, but look at some of the statements of climate commentators:

The View' Host Joy Behar (37): "The world is on a suicide mission: you know, with climate change.people have their heads in the sand"

Greta Thunberg (38): "Our house is on fire. I am here to say, our house is on fire."

Chuck Todd on a special issue of Meet the Press, Dec 31, 2018 (39): "We're not going to debate climate change, the existence of it. The Earth is getting hotter, period. And human activity is a major cause, period. We're not going to give time to climate deniers. The science is settled, even if political opinion is not."

Marcia Mc Nutt, upon taking over as president of the NAS (40): "The time for debate has ended. Action is urgently needed.to reduce their per-capita fossil fuel emissions even further."

Do these remind you of the responses of the patrol when asked about Raymond Shaw?

Were brains thoroughly dry cleaned?

XI: The false prophets of climate change

So here we are with the self-appointed false prophets of climate change. Who are they? Without delving into personalities, I simply assert that, among others, they are those who attend the yearly IPCC meetings and hurl their lightning bolts at the rest of us. They claim that we must cease the use of fossil fuel nearly immediately to 'save the planet'. To see the power of this group, the APS statement on climate change had 14 citations, **all** of them to the IPCC. But the IPCC is a political, not a scientific organization. The politicians are totally in charge, and have the authority to change scientific statements, and have done so (27). Another example of their power is shown in Fig. (21) here. This censored paper has been and still is used by other scientists. Several have contacted me about it, and I received a few compliments on it. At worst, it is controversial, it is certainly not "False information".

The power of this group of false prophets is unquestionable. They have captured many politicians, media personnel, captains of industry, and celebrities. Amazingly, they have even captured major scientific societies, as discussed in Section VIIID. By supporting this incorrect fear of a rapidly approaching climate catastrophe, these societies not only failed to perform due diligence, but they have also insulted their own members by ignoring or denying the work of these excellent scientists, who have come to different, correct conclusions. Yet the evidence of the falseness of their claims abounds as shown in earlier sections of this paper and elsewhere. As one final example, Figure 37 shows ariel views of San Diego harbor in 1966, and today, nearly 60 years later (41). Why it is not under water? Where is the ocean rise? Clearly the rise in sea level, if indeed there is any at all in that 60 year period, is measured in centimeters, not meters.

Figure 37: San Diego Harbor in 1966 and today.

Not only have these false prophets captured many important institutions, but they have also insisted that we spend hundreds of trillions of dollars to make an unnecessary major change in our electrical power system. How come the public has not said "Wait a minute, why the heck are we spending all this money? What the heck are we getting for it?" Are we all sheep marching to the slaughter, lemmings running for the cliff? The only explanation I can think of is just what Richard Lindzen speculated; we are in the grip of a mass delusion which has lasted 30 years.

According to these false prophets of climate change, we are all guilty of an original sin, which only they can discern. They see what we cannot. Unless we drastically change our ways, these modern false climate prophets warn us of impending heat waves, floods, intense storms, throwing down fire from the heavens, rising sea levels, wildfires. What could be more biblical? As hitman Jules Winnfield (AKA Samuel L. Jackson) interpreted God's will in Pulp Fiction: "And I (i.e. the false prophets) will execute great vengeance upon them with furious rebuke; and

they shall know that I am the Lord, when I shall lay my vengeance upon them" (Ezekiel 25:17), Fig. (38).

Figure (38) Jules Winnfield, doing the Lord's work.

But how much longer can this last? It has already lasted more than 30 years, longer than any of the tragedies brought on by the false prophets described in Sections V-VII. President Trump just issued an executive order forbidding subsidizing wind and solar energy with battery backups (42). Perhaps he can huff, and he can puff, and he can blow down this gigantic house of cards. Perhaps he can play the role of the 'good witch', just like Governor Phipps, Joseph Welsh, and Dorothy Rabinowitz did in these earlier not such mass delusions brought on by other false prophets. If he can, it will be an important and positive part of his legacy.

XII A vision for a sustainable future

While this paper has advocated continuing with fossil and nuclear fuel; and increasing the use so that the entire human family can achieve about the same lifestyle as we do in the west, that does not mean that these are sustainable fuels. However, even doubling the use of these, and thereby adding about 4 ppm of CO_2 per year into the atmosphere, it would take about 150 years to reach 1000 ppm. At least as far as the climate estimates, Wingaard and Happer, H.H. Lamb, and Judith Curry have asserted, this will do no harm. But this gives us a long time to come up with a sustainable fuel and to convert to it.

First, let us see how much of these fuels we have. Reasonably accurate estimates were given by Hoffert et al (43) in 2002. His estimates were given in TWyrs. However today, with the advent of fracking, and gigantic gas fields recently discovered, mostly in the United States, the estimates of oil and gas have increased considerably. Regarding nuclear fuel, Hoffert only regarded it in terms of mineable uranium on land. The amount was rather low. However, counting all the uranium and thorium resources, and considering breeding, the resource of nuclear fuels is immeasurably greater. Below is a chart, taken from (29), with estimates of the various fuels thought to be available, both in 2002 (43) and in 2024.

Table 1: Energy resources of various fuels in TWyrs as estimated in both 2002 and 2024.

Resource	2002 Energy Resource	2024 Energy Resource
Coal	4800	4800
Oil	1200	2000
Natural Gas	1200	4000
Nuclear	300	150,000

The first thing to notice is that there is sufficient fossil fuel, at 40TW to last well over a century. If a sustainable nuclear option is ready by then, the fossil fuel can be used for many other purposes, for instance manufacturing nitrogen fertilizer, which has already increased world food production immeasurable.

There is sufficient nuclear fuel, if one includes breeding, to be truly sustainable, it can support civilization at 40 TW for thousands of years, about as far into the future, as the dawn of civilization was in the past. There are several ways to achieve nuclear breeding; by using fast neutron reactors, thorium breeders, and/or fusion breeders. This author has spent a good bit of the latter part of his career researching and advocating fusion breeders. A reasonable and readily available summary is in (44), a paper with 117 references. In it an energy architecture was proposed called 'The Energy Park'. In it was a single fusion breeder which would fuel at least 5, and perhaps as many as 10 thermal nuclear reactors like the Light Water Reactor (LWR's), the Canadian deuterium uranium reactor (CANDU) or more advanced thermal reactors. Also in the park would be a single fast neutron reactor whose role would be to burn the actinide wastes (e.g. plutonium). This would prevent the creation of 'plutonium mines' which would plague humanity for half a million years.

A recent controversy is whether the recent American B2 raid on the Iranian nuclear facilities destroyed the Iranian uranium enriched to 60%. Of course it did not. You cannot destroy uranium with a chemical explosion. At best this raid created an enriched uranium mine in Iran; a mine which will plague humanity basically forever, unless we are able to recover the uranium and burn it in a nuclear reactor.

All elements of the energy park exist today except for the fusion breeder. This author has advocated that studies of both fusion breeding and pure fusion continue with increased funding, particularly in the light of the recent advances in the Lawrence Livermore National Laboratory (LLNL) in laser fusion. These advances are described in (44, 45)

XIII Conclusions

The climate panic is brought on by a group of false prophets, some possibly well intentioned, many surely with more selfish motives. How do we know they are false prophets? Section IV gave two test to use to see if a prophet is real. The first test is can one can check out their information. The answer here is yes. Thousands of well qualified scientists have checked out the various claims of an onrushing climate calamity, disputed them with solid data, and have found them to be at the very least unconvincing, and more likely total hogwash. The second test is do they make a prediction that can be checked out rather quickly. The answer here is no. They have been crying wolf for at least 30 years, and the world is no closer to climate calamity now than it was in 1995. This is undeniable. In fact, the longer the world goes without any climate disaster, the more strident their predictions become and the shorter timeline to disaster. The false climate prophets fail both tests.

Yet following the dictates of these false prophets to switch our power from fossil and nuclear fuel to solar and wind with battery backups, would cost hundreds of trillions, as they themselves admit (lots of $$$ to be made here!), and would very likely ruin western civilization. This is especially important, because given sufficient time, it is very likely that a carbon free, sustainable power source by nuclear breeding of one sort of another, will become viable, economic, and environmentally sound. To summarize, the switch to solar and wind to avoid a nonexistent climate calamity, would be a scientific, technical, public safety, economic, national security, and environmental disaster.

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