

# Policy Paper

## Fundamental Climate Science

### Misunderstanding: Concomitant Harm to

### Humanity and the Environment

Formatted: Left

#### ABSTRACT

The climate science community (CSC) has misrepresented climate change, falsely claiming carbon dioxide causes global warming, and ~~making-developing~~ computer models of Earth's radiation balance without taking into consideration the tropospheric particulate 'geoengineering' that has been taking place for several decades, thus rendering invalid those models and their interpretations [\[add reference\]](#).

The CSC misunderstands the science underlying particulate pollution in the troposphere, typically maintaining that aerosolized particulates cool the Earth [\[add reference\]](#).

As described here, pollution particles, including those jet-sprayed into the region where clouds form, reflect some radiation, but also absorb radiation and become heated [\[add reference\]](#). The heat is transferred to the surrounding atmosphere, thus increasing its temperature [\[add reference\]](#). The increased atmospheric temperature causes loss of heat-transfer efficiency from Earth's surface, and concomitant reduction of Earth's heat loss [\[add reference\]](#).

Climate science has been corrupted and coerced by military, commercial, and globalist political agendas [\[add reference\]](#). ~~Were the environmentally devastating geoengineering activities to continue unabated, life on Earth will keep progressing towards the first anthropogenic mass extinction.~~

~~The One~~ primal-right of all human beings is to breathe clean air, that has not been deliberately tainted with toxic substances, a right subverted by covert global geoengineering [\[add reference\]](#).

Every sovereign nation has the right, and the obligation, to protect the health and welfare of its citizens. The deliberate aerial spraying of pollution particulates constitutes an attack, not only on a nation's citizens, but an attack on the sovereign nation itself, whether that attack originates from ~~treasonous~~ activities within the sovereign nation or from outside [\[add reference\]](#). Here I describe five policy proposals, applicable to all sovereign nations, to end geoengineering 'attacks' on citizens.

*Keywords: climate science models, [Intergovernmental Panel on Climate Change \(IPCC\)](#), greenhouse gases, climate change, global warming, geoengineering, air pollution, geoengineering governance*

#### 1. INTRODUCTION

For thirty years, the United Nation's Intergovernmental Panel on Climate Change (IPCC) and the climate science community (CSC) have misrepresented the nature of climate change, also known as global warming [1]. Specifically, it falsely claims that anthropogenic carbon dioxide (CO<sub>2</sub>), via the greenhouse effect, is causing global warming by trapping Earth's heat, that otherwise should be radiated into space [1].

There is evidence that scientific objectivity on weather and climate has been ~~corrupted and~~ powerfully influenced by 'globalist' power politics, military needs, and corporate greed [2]. The highly publicized global warming 'debate'

UNDER PEER REVIEW

25 | concentrates on two extreme positions, each strikingly deficient in respect to one crucial, what the overriding facts are  
26 | [\[add reference\]](#).  
27 |  
28 | One widely promoted extreme position is that global warming, due to anthropogenic carbon dioxide, is real and that  
29 | serious consideration must be given to a global geoengineering technological fix to 'cool' planet Earth [3]. The other  
30 | widely promoted extreme position holds that climate change is a natural phenomenon [4]. Neither, however, is correct. Air  
31 | pollution, especially particulate pollution, including tropospheric particulate geoengineering pollution, is the principal cause  
32 | of global warming [5].  
33 |  
34 | The one commonality of each of the two widely-discussed positions is their systematic failure to mention the ongoing  
35 | tropospheric particulate geoengineering that has been taking place with ever-increasing intensity and geographical range,  
36 | becoming, since about 2010, a near-daily, near-global activity [6]. The particulate spray-trails (Figure 1) have been  
37 | witnessed by, and are of serious concern to, many millions of people [7]. These concerns are justified, as the deliberately  
38 | aerosolized particulate pollution is detrimental to the health of virtually all life on Earth [8-16].



**Figure 1.** Climate ~~geoengineeringmanipulation~~ particulate trails, from [6]. (~~Photographers with~~ With photographers' permission) Clockwise from upper left: Paris, France (Patrick Roddie); Karnak, ~~Egypt~~Egypt (author JMH); London, England (author IB); Northern California, USA (Patrick Roddie); Geneva, Switzerland (Beatrice Wright); Yosemite, California USA (Patrick Roddie); Jaipur, India (author JMH)

The IPCC and CSC abrogate long-standing principles of science in making assumption-based computer models of Earth's radiation balance without taking the widespread, tropospheric, jet-emplaced, particulate geoengineering that is

Formatted: Left

Formatted: Left, Don't adjust space between Latin and Asian text, Don't adjust space between Asian text and numbers

Formatted: Font: (Default) Arial

~~visibly~~visible and -obvious into consideration (Figure 1). Failure to consider ongoing tropospheric geoengineering renders those models and their interpretations invalid [\[add reference\]](#). Concomitantly, ignorance of some of the underlying geophysical science may well lead to global catastrophes, perhaps including the advent of a new ice age [\[add reference\]](#).

Neither the IPCC nor the CSC fully understand the science underlying the effects of pollution particulate matter in the atmosphere [\[add reference\]](#). They typically maintain that the consequence of aerosolized particulates is to cool the Earth [17-19]. That lack of understanding is evident, for example, ~~in-based on~~ the following statement [19]: “Strong aerosol cooling in the past and present would then imply that future global warming [due to pollution reduction] may proceed at or even above the upper extreme of the range projected by the Intergovernmental Panel on Climate Change.” Advocacy of aerosolized particulate geoengineering to ‘cool the Earth’ is based upon misunderstood climate science by the climate science community [\[add reference\]](#), as described below.

## 2. NATURE AND CONSEQUENCES OF AERIAL PARTICULATE SPRAYING

Although the specific the compositions and purposes of the ongoing aerial particulate spraying are not publically discussed, they can be deduced from knowledge of the chemical and physical behavior of the aerosolized particulates [\[add reference\]](#).

### 2.1 Evidence Consistent with Toxic Coal Fly Ash as the Main Geoengineering Aerosolized Particulate Pollution

During formation, coal ~~occluded-sequestered~~ toxic chemical elements from the environment [20]. When coal is burned industrially, ~~about approximately~~ 10% remains as ash, concentrating heavy metals and toxins in the ash [\[add reference\]](#). ~~Whereas-While~~ the heavy ash settles beneath the coal burner, the light ash, called coal fly ash (CFA), forms by condensing and accumulating, in the hot gases above the burners [21,22]. Coal fly ash, newly formed above the burner, would exit smokestacks, ~~if it were it-not~~ trapped and sequestered, as required by many nations [\[add reference\]](#). Coal fly ash is a major waste product [23] that requires little additional processing ~~in-order-to-to~~ be used as an ideally sized jet-sprayed aerosol [\[add reference\]](#). Its particles form in sizes ranging from 0.01 – 50 microns (µm) in diameter [24]. Moreover, CFA's chemical elements ~~are-able-to-can~~ be partially extracted ~~into~~ atmospheric moisture, thus making moisture droplets more electrically conducting and responsive to electromagnetic radiation [25].

Comparing 11 elements analyzed in post-spraying rainwater to corresponding elements, measured in laboratory water-extract analyses of this likely aerosol, provided scientific forensic evidence that CFA is consistent with the main particulate-pollutant substance being jet-sprayed into the atmosphere [9,26]. Further consistency was demonstrated by comparing CFA elemental analyses to 14 elements measured in air-filter-trapped outdoor aerosol particles [27] and to 23 elements measured in aerosol particles ~~brought-downprecipitated~~ during a snowfall and released upon melting [8,9,16].

Other substances may occasionally be used for specific purposes or added to the CFA, for example, to minimize clumping caused by van der Waals forces [\[add reference\]](#). The ubiquitous presence of CFA-extractable elements found in post-spraying rainwater around the world indicates that the main substance sprayed into the regions where clouds form is consistent with CFA [\[add reference\]](#). Coal fly ash, —inexpensive, widely available, and with useful properties,—is thus an ideal geoengineering aerosol, ~~provided-you-have-no-concern-for-human-and-environmental-health~~ [12-16].

### 2.2 Environmental Health Consequences of Tropospheric Particulate Pollution

Aerosolized CFA sprayed into the region where clouds form, for climate and weather manipulation or other military purposes, mixes with the air we breathe and: (1) puts populations at risk for respiratory disease [14], lung cancer [12], neurodegenerative disease [13], and potentially other health problems [8]; (2) poses a previously unrecognized factor in worldwide forest die-offs [11]; bee and insect die-offs [15]; bird die-offs [16], and; (3) contaminates the biosphere with mercury [9], destroys atmospheric ozone that protects us from the sun's deadly ultraviolet radiation [28], and ultimately may cause ~~untold~~ death and destruction [6,10,27].

### 2.3 Tropospheric Particulate Pollution Inhibits Rainfall

Aerosol particles, jet-sprayed into the regions where clouds form, are in fact pollution particles [\[add reference\]](#). Pollution particles are known to inhibit the fall of rain and snow by effectively keeping droplets and ice-crystals from coalescing to become sufficiently massive to fall to ~~the~~ ground [29,30]. Intensive applications of jet-sprayed particulates can thus

artificially-induced drought in some areas, and concomitant downpours, storms, and flooding in other areas, disrupting natural hydrological cycles and causing climate ~~chaos~~-impacts [6].

## 2.4 Tropospheric Particulate Pollution Heats the Surface and Changes Surface Albedo

Aerosol particles, jet-sprayed into the atmosphere, are circulated by atmospheric convection and winds, eventually settling to ground where they absorb solar radiation [add reference]. If they happen to land on ice or snow they change the reflective properties (albedo), causing less light to be reflected and more to be absorbed, thus adding to global warming [31,32].

## 2.5 Tropospheric Particulate Pollution Heats the Atmosphere

Pollution particles, including ~~and especially~~ those sprayed into the region where clouds form, reflect some solar radiation, but they also absorb radiation, become heated, and then transfer that heat to the atmosphere by collisions with atmospheric molecules [add reference]. Coal fly ash is known to be an efficient radiation absorber [33-35].

According to Hunt [36]: *"A dispersion of small absorbing particles forms an ideal system to collect radiant energy, transform it to heat, and efficiently transfer the heat to a surrounding fluid.... If the characteristic absorption length for light passing through the material comprising the particles is greater than the particle diameter, the entire volume of the particles is active as the absorber. When the particles have absorbed the sunlight and their temperature begins to rise they quickly give up this heat to the surrounding gas..."*

Aerosolized particulate pollution is heated by absorbed radiation [add reference]. That heat is transferred to the surrounding atmospheric gases, which increases their temperature [add reference]. ~~That~~ ~~The~~ temperature increase results in ~~the~~ loss of heat-transfer efficiency from Earth's surface, and concomitant reduction of Earth's heat loss [add reference] as described below.

## 3. REDUCTION OF EARTH'S SURFACE HEAT LOSS

Generally, heat is transported by conduction, convection, and radiation [add reference]. Each of these modes of heat transport is operant in removing heat from Earth's surface [add reference]. Specifically, heat loss from ~~the~~ Earth's surface occurs via (1) conduction of energy through the interactions of atoms and molecules; (2) mass-transport of energy by massive atmospheric convection; ~~and~~; (3) infrared radiation from the surface [add reference]. Additional heat removal results from phase changes, namely, the latent heat required to melt ice and to evaporate water [add reference]. The near-daily, near-global geoengineering emplacement of particulates reduces heat loss from Earth's surface ~~by-through~~ several mechanisms [add reference].

### 3.1 Reduction of Surface Heat Loss Caused by Reduced Atmospheric Heat Transfer by Convection

Of the three principal modes of heat transfer, thermal convection has been misunderstood by both the IPCC and CSC, and by the geophysics community (in other contexts).

Chandrasekhar described convection in the following, easy-to-understand way [37]: *The simplest example of thermally induced convection arises when a horizontal layer of fluid is heated from below and an adverse temperature gradient is maintained. The adjective 'adverse' is used to qualify the prevailing temperature gradient, since, on account of thermal expansion, the fluid at the bottom becomes lighter than the fluid at the top; and this is a top-heavy arrangement which is potentially unstable. Under these circumstances the fluid will try to redistribute itself to redress this weakness in its arrangement. This is how thermal convection originates: It represents the efforts of the fluid to restore to itself some degree of stability.*

In 1939, Elsasser initiated a series of publications proposing that the geomagnetic field is derived from convection-driven dynamo action in the Earth's fluid core [38-40]. Ever since, numerous computer models of convection in the Earth's fluid core have been produced, indicating that many in the geoscience community believe in Elsasser's Earth-core convection-dynamo hypothesis 80 years later [41-43].

Sustained convection in Earth's fluid core is ~~highly unlikely~~impossible [44], ~~however~~, and ~~demands-requires~~ ~~demanding~~ a different site for the convection-driven dynamo origin of the geomagnetic field to work [45-48]. ~~Why-impossible?~~ One of the reasons is that sustained convection requires a sustained adverse temperature gradient [add reference]. The core-top



must be continually kept cooler than the core-bottom [44]. Heat transported from the core-bottom by mass-flow must be efficiently removed from the core-top, to maintain the adverse temperature gradient, but that is ~~not-possible~~difficult because the core is surrounded by a thermally insulating blanket, Earth's silicate mantle [add reference].

The concept of an adverse temperature gradient and its effect on convection efficiency is important to understand, and easy to visualize by classroom demonstration [49], but it is difficult to quantify explicitly for the troposphere [add reference]. If a system is capable of convection, the convection efficiency (heat transport efficiency) decreases with reduction of the adverse temperature gradient [add reference]. Heating the upper convective-regions of the atmosphere, via pollution-aerosol radiation absorption, decreases the adverse temperature gradient, and, concomitantly, *leads to reduced convective heat transport from Earth's surface* [add reference].

~~To reiterate:~~ Particulate matter in the convecting portion of the atmosphere not only blocks sunlight, it also absorbs radiation both from in-coming solar radiation and from out-going terrestrial radiation, heats the atmosphere, and concomitantly reduces convective heat transport from the surface [add reference]. The IPCC and CSC seem to be unaware of the geophysical-behavior differences of particulate matter placed (1) into the stratosphere where convection does not take place, and (2) into the troposphere where atmospheric convection takes place and where atmospheric heating reduces the efficiency of convective heat transfer from Earth's surface [add reference].

### 3.2 Other Potential Reductions of Earth's Surface Heat Loss by Tropospheric Particulate Geoengineering

In addition to tropospheric aerosolized particulate matter reducing the adverse temperature gradient, which then diminishes convective heat transfer efficiency, there are, as one might expect for this complex thermal system, other potential ways in which particulate matter, jet-sprayed into the region where clouds form, might lead to reductions in Earth's surface heat loss [add references]. Briefly described below, these should be further investigated.

As noted in Section 2.3, one principal consequence of aerosolized pollution is prevention of rainfall and snow by effectively keeping droplets and ice-crystals from coalescing to become sufficiently massive to fall to the ground [29,30], causing artificial, but very real drought conditions [6,27]. Eventually, the geoengineered-clouds become overburdened with moisture and discharge their moisture in downpours, torrents, and storms, typically separated geographically from the regions of geoengineered drought [add reference].

For several years, ~~for example,~~ California has been subjected to artificial drought conditions by near-daily tropospheric jet-sprayed particulates, while downpours and floods have occurred in the Midwest and Eastern United States [10]. Although difficult to quantify, it is reasonable to assume that natural, frequent, widely-spread precipitation will have greater proclivity for latent-heat phase changes than the fewer, heavy downpours and storms resulting from atmospheric particulate-geoengineering [add reference].

Aerosolized coal fly ash tropospheric geoengineering not only causes drought, which damages and desiccates forests and plant-life, but the moisture-extracted CFA toxins, especially aluminum in a chemically mobile form, weaken trees and aids in their demise [10]. One consequence of forest die-offs is the reduction of transpired water, which thus reduces the latent-heat phase changes that serve to reduce Earth's surface heat loss [add reference].

As noted previously [1], the IPCC and CSC recognize that clouds block incoming solar ~~radiation, but~~ radiation but underestimate the role of clouds in retaining Earth's heat that should otherwise be radiated into space [50-53]. The possibility should be considered that additional cloud formation caused by aerosolized particulates or overt actions to inject massive quantities of water into the atmosphere may lead to further reductions of Earth's surface heat loss [add reference].

## 4. GEOSCIENCE PAWNS IN POLITICAL MALFEASANCE

As described here and previously reported [1], the IPCC evaluations and conclusions are without merit [54]. Since its inception the IPCC has promoted the idea of 'future' geoengineering to compensate for alleged CO<sub>2</sub> global warming [54]. A massive media campaign was launched to convince citizens of the alleged CO<sub>2</sub> global warming planetary threat [55,56]. Then, without public comment, without informed consent, and buttressed by misinformation [57-60], militaries and their contractors from around the world began to jet-spray particulate matter into the region where clouds form [6] on a near-daily, near-global basis, presumably through secret agreement(s) [add references]. Simultaneously, concerted efforts were initiated to encourage 'governance' to legalize geoengineering so that non-military organizations might participate in geoengineering activities as well [61,62].

Formatted: Font: Bold, Underline

Formatted: Font: Bold, Underline

Formatted: Font: (Default) Arial

222 | Actual and proposed geoengineering have no sound scientific substance [\[add reference\]](#): Air pollution, especially  
223 | particulate pollution, is our planet's real enemy, not carbon dioxide [1,5]. The intense, widespread tropospheric  
224 | geoengineering activity is not only causing and exacerbating global warming through mechanisms described [here](#),  
225 | ~~but here but~~ is ~~wreaking-causing~~ human and environmental destruction on a planetary scale [5,6,8-16,26-28,63].  
226 |  
227 |

228 | The apparently well-coordinated, continuous media-blitz, public misinformation, military co-opting, etc. is indicative of  
229 | politically-based direction and motivation [\[add reference\]](#). Geoscientists worldwide and the institutions they serve have  
230 | ~~become pawns in providing-provided~~ pseudo-scientific justification for political operations whose consequences represent  
231 | a massive assault on humanity and on the planetary environment [\[add reference\]](#). There is historical precedent: German  
232 | laws in the 1930s, under which Nazi crimes against humanity were perpetrated, were enacted based upon pseudo-  
233 | scientific justification by physicians and scientists [64].  
234 |

## 235 | 5. CAN IT BE BETTER? CAN IT BE WORSE?

236 |  
237 | Particle lifetimes in the troposphere are short, days to weeks [65,66]. If all ~~of the~~ tropospheric geoengineering were halted,  
238 | and if all particulate pollution activities were likewise halted, including the massive commercial jet traffic that exacerbates  
239 | global warming [67], our planet's surface would almost immediately begin to approach its natural state of thermal  
240 | equilibrium; days would be sunnier, but nights would cool off more quickly, restoring temperature equilibrium [\[add](#)  
241 | [reference\]](#). Ocean cooling and biota re-establishment, however, might take years or decades [\[add reference\]](#).  
242 |

243 | But if the geoengineering activities, driven by political actors supported by IPCC ~~pseudoscience~~, and put into practice by  
244 | militaries and their contractors, continue unabated, life on Earth will progress towards the first anthropogenic mass  
245 | extinction [6]. ~~In desperation, were~~ those entities ~~to decided~~ to put highly reflective ~~matter-surfaces~~ high into the  
246 | stratosphere, where convection does not take place and particles' airborne lifetimes are measured in years, such a  
247 | geoengineering ~~scheme-approach~~ may radically cool Earth and usher in a new ice age [\[add reference\]](#). ~~Earth's first~~  
248 | ~~anthropogenically-caused ice age.~~  
249 |

## 250 | 6. POLICY PROPOSALS

251 |  
252 | ~~The One~~ primal-right of all human beings is to breathe clean air, air that has not been deliberately tainted with toxic  
253 | substances. That right has been systematically, covertly, and deceitfully violated internationally on a scale that threatens  
254 | all human and environmental health [\[add reference\]](#). The purported basis for geoengineering (global warming caused by  
255 | anthropogenic carbon dioxide) is a hoax, justified ~~on the basis of~~ ~~based on~~ ~~sham~~-climate science [1,5,6]. Ongoing, near-  
256 | daily, near-global geoengineering, involving aerial spraying of pollutant particles into the region where clouds form, does  
257 | not counteract global warming [\[add reference\]](#). Instead it causes and exacerbates global warming [\[add reference\]](#).  
258 |

259 | Adverse health consequences of particulate air pollution are staggering [\[add reference\]](#). We know from epidemiological  
260 | studies that air pollution particulates (approximately the same size-range as the aerosolized geoengineering particulates)  
261 | are associated with: Alzheimer's disease [68,69], lung cancer [70], risk for stroke [71], risk for cardiovascular disease [72],  
262 | lung inflammation and diabetes [73], reduced renal function in older males [74], morbidity and premature mortality [75-  
263 | 77], cognitive decline in older women [78], decreased male fertility [79], low birth weight [80], onset of asthma [81], and  
264 | increased hospital admissions [82]. Additionally, as noted above, aerosolized coal fly ash, used as geoengineering  
265 | pollution particulates, puts populations at risk for respiratory disease [14], lung cancer [12], neurodegenerative disease  
266 | [13], and potentially causes serious environmental health problems [9,11,15,16,28].  
267 |

268 | Recently, the Director General of the World Health Organization warned of the dangers of air pollution, saying the simple  
269 | act of breathing is killing 7 million people a year and harming billions more [83]. Those numbers will certainly escalate if  
270 | covert geoengineering continues [\[add reference\]](#).  
271 |

272 | ~~Every sovereign nation has the right and the obligation to protect the health and welfare of its citizens. The deliberate~~  
273 | ~~aerial spraying of pollution particulates constitutes an attack, not only on a nation's citizens, but an attack on the sovereign~~  
274 | ~~nation itself, whether that attack originates from treasonous activities within the sovereign nation or from outside it.~~ I  
275 | propose the following policies that are applicable to all sovereign nations.  
276 |

- 277 | • Order [an](#) immediate cessation ~~without exception of any and to~~ all activities that deliberately place pollutant  
278 | substances into the atmosphere.  
279 |

• Order a full and complete declassification, without redaction, of ~~any and all~~ documents pertaining to atmospheric modifications, and make these documents readily available to the citizenry ~~so as to facilitate dialog~~ and potential criminal prosecutions and civil litigation where warranted.

• Recognize that in matters of protecting sovereign nations' citizenry, national sovereignty supersedes multi-national alliances, ~~such as the British Commonwealth, the European Union, the North Atlantic Treaty Organization, and the United Nations, to name a few.~~

• Enact sanctions against ~~any and all~~ sovereign nations and multi-national alliances that continue or begin to deliberately place pollutant substances into the atmosphere, because atmospheric mobility does not recognize political boundaries.

• Enact legislation to prevent atmospheric modification ~~in the future~~.

## 7. Conclusions

For thirty years, the climate science community (CSC) has misrepresented the nature of climate change, falsely claiming that carbon dioxide is causing global warming by trapping Earth's heat that should otherwise be radiated into space [add reference]. The CSC has abrogated long-standing principles of science by making assumption-based computer models of Earth's radiation balance without considering the consequences of tropospheric particulate geoengineering that has been taking place with ever-increasing intensity and geographic scope for decades, thus rendering those models and their interpretations invalid [add reference].

The CSC misunderstands the science underlying particulate pollution in the troposphere, typically maintaining that aerosolized particulates cool the Earth when quite the opposite is the case [add reference].

As described here, pollution particles, including those jet-sprayed into the region where clouds form, reflect some radiation, but also absorb radiation and become heated [add reference]. The heat is transferred to the surrounding atmosphere, thus increasing its temperature [add reference]. The increased atmospheric temperature causes loss of heat-transfer efficiency from the Earth's surface, and concomitant reduction of Earth's heat loss [add reference].

Climate science has been corrupted by military, commercial, and globalist political agendas [add reference]. If the environmentally-devastating geoengineering activities, driven by CSC ~~pseudoscience~~, and put into practice by militaries and their contractors, were to continue unabated, life on Earth will keep progressing towards the first anthropogenic mass extinction [add reference].

~~The primal right of all human beings is to breathe clean air, air that has not been deliberately tainted with toxic substances, a right subverted globally by covert geoengineering.~~

~~Every sovereign nation has the right and the obligation to protect the health and welfare of its citizens. The deliberate aerial spraying of pollution particulates, I submit, constitutes an attack, not only on its citizens, but an attack on the sovereign nation as well, whether that attack originates from treasonous activities within the sovereign nation or from outside entities. Here I describe five policy proposals, applicable to all sovereign nations, to end forever geoengineering attacks on citizenry.~~

## REFERENCES

1. Herndon JM. Science misrepresentation and the climate-science cartel. Journal of Geography, Environment and Earth Science International. 2018; accepted for publication.
2. [http://www.nuclearplanet.com/Evidence\\_of\\_Undisclosed\\_Global\\_Geoengineering.html](http://www.nuclearplanet.com/Evidence_of_Undisclosed_Global_Geoengineering.html) - Accessed December 5, 2018.
3. Victor DG, Morgan MG, Apt F, Steinbruner J. The Geoengineering Option-A Last Resort against Global Warming. Foreign Aff. 2009; 88:64.
4. Tranter B, Booth K. Scepticism in a changing climate: a cross-national study. Global Environmental Change. 2015; 33: 154-64.



339 5. Herndon JM. Air Pollution, Not Greenhouse Gases: The Principal Cause of Global Warming. J Geog Environ  
340 Earth Sci Intn. 2018;\_17(2):\_1-8.  
341  
342 6. Herndon JM, Whiteside M, Baldwin I. Fifty Years after "How to Wreck the Environment": Anthropogenic Extinction  
343 of Life on Earth. J Geog Environ Earth Sci Intn. 2018;\_16(3):\_1-15.  
344  
345 7. <http://www.nuclearplanet.com/websites.pdf> - Accessed December 5, 2018.  
346  
347 8. Herndon JM, Whiteside M. Further evidence of coal fly ash utilization in tropospheric geoengineering: Implications  
348 on human and environmental health. J Geog Environ Earth Sci Intn. 2017;\_9(1):\_1-8.  
349  
350 9. Herndon JM, Whiteside M. Contamination of the biosphere with mercury: Another potential consequence of on-  
351 going climate manipulation using aerosolized coal fly ash J Geog Environ Earth Sci Intn. 2017;\_13(1):\_1-11.  
352  
353 10. Herndon JM, Whiteside M. California wildfires: Role of undisclosed atmospheric manipulation and  
354 geoengineering. J Geog Environ Earth Sci Intn. 2018;\_17(3):\_1-18.  
355  
356 11. Herndon JM, Williams DD, Whiteside M. Previously unrecognized primary factors in the demise of endangered  
357 torrey pines: A microcosm of global forest die-offs. J Geog Environ Earth Sci Intn 2018;\_16(4):\_1-14.  
358  
359 12. Whiteside M, Herndon JM. Coal fly ash aerosol: Risk factor for lung cancer. Journal of Advances in Medicine and  
360 Medical Research. 2018;\_25(4):\_1-10.  
361  
362 13. Whiteside M, Herndon JM. Aerosolized coal fly ash: Risk factor for neurodegenerative disease. Journal of  
363 Advances in Medicine and Medical Research. 2018;\_25(10):\_1-11.  
364  
365 14. Whiteside M, Herndon JM. Aerosolized coal fly ash: Risk factor for COPD and respiratory disease. Journal of  
366 Advances in Medicine and Medical Research. 2018;\_26(7):\_1-13.  
367  
368 15. Whiteside M, Herndon JM. Previously unacknowledged potential factors in catastrophic bee and insect die-off  
369 arising from coal fly ash geoengineering Asian J Biol. 2018;\_6(4):\_1-13.  
370  
371 16. Whiteside M, Herndon JM. Aerosolized coal fly ash: A previously unrecognized primary factor in the catastrophic  
372 global demise of bird populations and species. Asian J Biol. 2018;\_6(4):\_1-13.  
373  
374 17. Letcher TM. Why do we have global warming? Managing Global Warming: Elsevier; 2019. p. 3-15.  
375  
376 18. Summerhayes CP, Zalasiewicz J. Global warming and the Anthropocene. Geology Today. 2018;\_34(5):\_194-200.  
377  
378 19. Andreae MO, Jones CD, Cox PM. Strong present-day aerosol cooling implies a hot future. Nature. 2005;  
379 435(7046):\_1187.  
380  
381 20. Gluskoter HJ. Trace elements in coal: occurrence and distribution. Illinois State Geological Survey Circular no  
382 499. 1977.  
383  
384 21. Berkowitz N. An introduction to coal technology: Elsevier; 2012.  
385  
386 22. Chen Y, Shah N, Huggins F, Huffman G, Dozier A. Characterization of ultrafine coal fly ash particles by energy  
387 filtered TEM. Journal of Microscopy. 2005;\_217(3):\_225-34.  
388  
389 23. Montes-Hernandez G, Perez-Lopez R, Renard F, Nieto J, Charlet L. Mineral sequestration of CO<sub>2</sub> by aqueous  
390 carbonation of coal combustion fly-ash. Journal of Hazardous Materials. 2009;\_161(2):\_1347-54.  
391  
392 24. Zhuang Y, Kim YJ, Lee TG, Biswas P. Experimental and theoretical studies of ultra-fine particle behavior in  
393 electrostatic precipitators. Journal of Electrostatics. 2000;\_48(3):\_245-60.  
394  
395 25. Moreno N, Querol X, Andrés JM, Stanton K, Towler M, Nugteren H, et al. Physico-chemical characteristics of  
396 European pulverized coal combustion fly ashes. Fuel. 2005;\_84:1351-63.  
397

398  
399 26. Herndon JM. Aluminum poisoning of humanity and Earth's biota by clandestine geoengineering activity:  
400 implications for India. *Curr Sci*. 2015;108(12):2173-7.  
401  
402 27. Herndon JM. Adverse agricultural consequences of weather modification. *AGRIVITA Journal of agricultural*  
403 *science*. 2016;38(3):213-21.  
404  
405 28. Herndon JM, Hoisington RD, Whiteside M. Deadly ultraviolet UV-C and UV-B penetration to Earth's surface:  
406 Human and environmental health implications. *J Geog Environ Earth Sci Intn*. 2018;14(2):1-11.  
407  
408 29. <http://svs.gsfc.nasa.gov/cgi-bin/details.cgi?aid=20010> - Accessed December 5, 2018.  
409  
410 30. Rosenfeld D. Suppression of rain and snow by urban and industrial air pollution. *Science*. 2000;287(5459):1793-  
411 6.  
412  
413 31. Qian Y, Yasunari TJ, Doherty SJ, Flanner MG, Lau WK, Ming J, et al. Light-absorbing particles in snow and ice:  
414 Measurement and modeling of climatic and hydrological impact. *Advances in Atmospheric Sciences*. 2015;32(1):64-91.  
415  
416 32. Hansen J, Nazarenko L. Soot climate forcing via snow and ice albedos. *Proceedings of the National Academy of*  
417 *Sciences*. 2004;101(2):423-8.  
418  
419 33. Moteki N, Adachi K, Ohata S, Yoshida A, Harigaya T, Koike M, et al. Anthropogenic iron oxide aerosols enhance  
420 atmospheric heating. *Nature communications*. 2017;8:15329.  
421  
422 34. Stier P, Seinfeld JH, Kinne S, Boucher O. Aerosol absorption and radiative forcing. *Atmospheric Chemistry and*  
423 *Physics*. 2007;7(19):5237-61.  
424  
425 35. Ito A, Lin G, Penner JE. Radiative forcing by light-absorbing aerosols of pyrogenetic iron oxides. *Scientific*  
426 *Reports*. 2018;8(1):7347.  
427  
428 36. Hunt AJ. Small particle heat exchangers. University of California, Berkeley Report No. LBL-7841. 1978.  
429  
430 37. Chandrasekhar S. Thermal Convection. *Proc Amer Acad Arts Sci*. 1957;86(4):323-39.  
431  
432 38. Elsasser WM. On the origin of the Earth's magnetic field. *Phys Rev*. 1939;55:489-98.  
433  
434 39. Elsasser WM. Induction effects in terrestrial magnetism. *Phys Rev*. 1946;69:106-16.  
435  
436 40. Elsasser WM. The Earth's interior and geomagnetism. *Revs Mod Phys*. 1950;22:1-35.  
437  
438 41. Roberts PH, King EM. On the genesis of the Earth's magnetism. *Reports on Progress in Physics*. 2013;76(9):  
439 096801.  
440  
441 42. Huguet L, Amit H, Alboussière T. Geomagnetic dipole changes and upwelling/downwelling at the top of the  
442 Earth's core. *Frontiers in Earth Science*. 2018;6:170.  
443  
444 43. Glatzmaier GA. Geodynamo simulations - How realistic are they? *Ann RevEarth Planet Sci*. 2002;30:237-57.  
445  
446 44. Herndon JM. Geodynamic Basis of Heat Transport in the Earth. *Curr Sci*. 2011;101(11):1440-50.  
447  
448 45. Herndon JM. Nuclear georeactor generation of the earth's geomagnetic field. *Curr Sci*. 2007;93(11):1485-7.  
449  
450 46. Herndon JM. Nature of planetary matter and magnetic field generation in the solar system. *Curr Sci*. 2009;96(8):  
451 1033-9.  
452  
453 47. Herndon JM. Uniqueness of Herndon's Georeactor: Energy Source and Production Mechanism for Earth's  
454 Magnetic Field. arXiv: 09014509. 2009.  
455

48. Herndon JM. Terracentric nuclear fission georeactor: background, basis, feasibility, structure, evidence and geophysical implications. *Curr Sci*. 2014;106(4):528-41.
49. <https://www.youtube.com/watch?v=O-V3yR2RZUE> <https://www.youtube.com/watch?v=O-V3yR2RZUE> - Accessed December 5, 2018.
50. Pan Z, Mao F, Gong W, Min Q, Wang W. The warming of Tibetan Plateau enhanced by 3D variation of low-level clouds during daytime. *Remote Sensing of Environment*. 2017;198:363-8.
51. Duan A, Wu G. Change of cloud amount and the climate warming on the Tibetan Plateau. *Geophysical Research Letters*. 2006;33(22).
52. Stephens GL. Cloud feedbacks in the climate system: A critical review. *Journal of Climate*. 2005;18(2):237-73.
53. Dai A, Trenberth KE, Karl TR. Effects of clouds, soil moisture, precipitation, and water vapor on diurnal temperature range. *Journal of Climate*. 1999;12(8):2451-73.
54. <http://www.ipcc.ch/report/ar5/> - Accessed December 5, 2018.
55. Feldman L, Myers TA, Hmielowski JD, Leiserowitz A. The mutual reinforcement of media selectivity and effects: Testing the reinforcing spirals framework in the context of global warming. *Journal of Communication*. 2014;64(4):590-611.
56. Bolin JL, Hamilton LC. The News You Choose: news media preferences amplify views on climate change. *Environmental Politics*. 2018;27(3):455-76.
57. [http://www.nuclearplanet.com/public\\_rejection.pdf](http://www.nuclearplanet.com/public_rejection.pdf) - Accessed December 5, 2018.
58. [http://www.nuclearplanet.com/Public\\_Deception\\_by\\_Scientists.html](http://www.nuclearplanet.com/Public_Deception_by_Scientists.html) - Accessed December 5, 2018.
59. <http://www.nuclearplanet.com/explainretractions.pdf> - Accessed December 5, 2018.
60. <http://www.nuclearplanet.com/American%20Science%20Decline.html> - Accessed December 5, 2018.
61. Lin AC. International legal regimes and principles relevant to geoengineering. *Climate Change Geoengineering: Philosophical Perspectives, Legal Issues, and Governance Frameworks*: Cambridge University Press; 2010.
62. Virgoe J. International governance of a possible geoengineering intervention to combat climate change. *Climatic Change*. 2009;95(1-2):103-19.
63. Herndon JM. Evidence of variable Earth-heat production, global non-anthropogenic climate change, and geoengineered global warming and polar melting. *J Geog Environ Earth Sci Intn*. 2017;10(1):16.
64. Friedlander H. *The Origins of Nazi Genocide: From Euthanasia to the Final Solution*. Chapel Hill, North Carolina, USA: University of North Carolina Press; 1995.
65. Liu D-Y, Rutherford D, Kinsey M, Prather KA. Real-time monitoring of pyrotechnically derived aerosol particles in the troposphere. *Analytical chemistry*. 1997;69(10):1808-14.
66. Williams J, Reus Md, Krejci R, Fischer H, Ström J. Application of the variability-size relationship to atmospheric aerosol studies: estimating aerosol lifetimes and ages. *Atmospheric Chemistry and Physics*. 2002;2(2):133-45.
67. Burkhardt U, Kärcher B. Global radiative forcing from contrail cirrus. *Nature Climate Change*. 2011;1(1):54.
68. Calderon-Garciduenas L, Franko-Lira M, Mora-Tiscareno A, Medina-Cortina H, Torres-Jardon R, ~~et al.~~ Early Alzheimer's and Parkinson's disease pathology in urban children: Friend versus foe response - it's time to face the evidence. *BioMed Research International*. 2013;32:650-8.

514 69. Moulton PV, Yang W. Air pollution, oxidative stress, and Alzheimer's disease. *Journal of Environmental and*  
515 *Public Health*. 2012; 109(8): 1004-11.

516 70. Beeson WL, Abbey DE, Knutsen SF. Long-term concentrations of ambient air pollutants and incident lung cancer  
517 in California adults: Results from the AHSMOG Study. *Environ Health Perspect*. 1998; 106(12): 813-22.

518 71. Hong YC, Lee JT, Kim H, Kwon HJ. Air pollution: A new risk factor in ischemic stroke mortality. *Stroke*. 2002; 33:  
519 2165-9.

520 72. Haberzettl P, Lee J, Duggineni D, McCracken J, Bolanowski D, O'Toole TE, et al. Exposure to ambient air fine  
521 particulate matter prevents VEGF-induced mobilization of endothelial progenitor cells from bone marrow. *Environ Health*  
522 *Perspect*. 2012; 120(6): 848-56.

523 73. Potera C. Toxicity beyond the lung: Connecting PM2.5, inflammation, and diabetes. *Environ Health Perspect*.  
524 2014; 122(1): A29.

525 74. Mehta AJ, Zanobetti A, Bind M-A, C., Kloog I, Koutrakis P, Sparrow D, et al. Long-term exposure to ambient fine  
526 particulate matter and renal function in older men: The VA Normative Aging Study. *Environ Health Perspect*. 2016; 124(9)  
527 :1353-60.

528 75. Dai L, Zanobetti A, Koutrakis P, Schwartz JD. Associations of fine particulate matter species with mortality in the  
529 United States: A multicity time-series analysis. *Environ Health Perspect*. 2014; 122(8): 837-42.

530 76. Dockery DW, Pope CAI, Xu XP, Spengler JD, Ware JH, et al. An association between air pollution and mortality in  
531 six U. S. cities. *N Eng J Med*. 1993; 329: 1753-9.

532 77. Pope CAI, Ezzati M, Dockery DW. Fine-particulate air pollution and life expectancy in the United States. *N Eng J*  
533 *Med*. 2009; 360: 376-86.

534 78. Weuve J, Puett RC, Schwartz J, Yanosky JD, Laden F, Grodstein F. Exposure to particulate air pollution and  
535 cognitive decline in older women. *Archives of internal medicine*. 2012; 172(3): 219-27.

536 79. Pires A, de Melo EN, Mauad T, Saldiva PHN, Bueno HMdS. Pre- and postnatal exposure to ambient levels of  
537 urban particulate matter (PM2.5) affects mice spermatogenesis. *Inhalation Toxicology: International Forum for Respiratory*  
538 *Research*: DOI: 10.3109/089583782011563508. 2011; 23(4).

539 80. Ebisu K, Bell ML. Airborne PM2.5 chemical components and low birth weight in the northeastern and mid-atlantic  
540 regions of the United States. *Environ Health Perspect*. 2012; 120(12): 1746-52.

541 81. Tetreault L-F, Doucet M, Gamache P, Fournier M, Brand A, Kosatsky T, et al. Childhood exposure to ambient air  
542 pollutants and the onset of asthma: An administrative cohort study in Quebec. *Environ Health Perspect*. 2016; 124(8):  
543 1276.

544 82. Bell ML, Ebisu K, Leaderer BP, Gent JF, Lee HJ, Koutrakis P, et al. Associations of PM2.5 constituents and  
545 sources with hospital admissions: Analysis of four counties in Connecticut and Massachusetts (USA). *Environ Health*  
546 *Perspect*. 2014; 122(2): 138-44.

547 83. Carrington D, Taylor M. Air pollution is the 'new tobacco', warns WHO head. *The Gaurdian*. 27 October 2018.