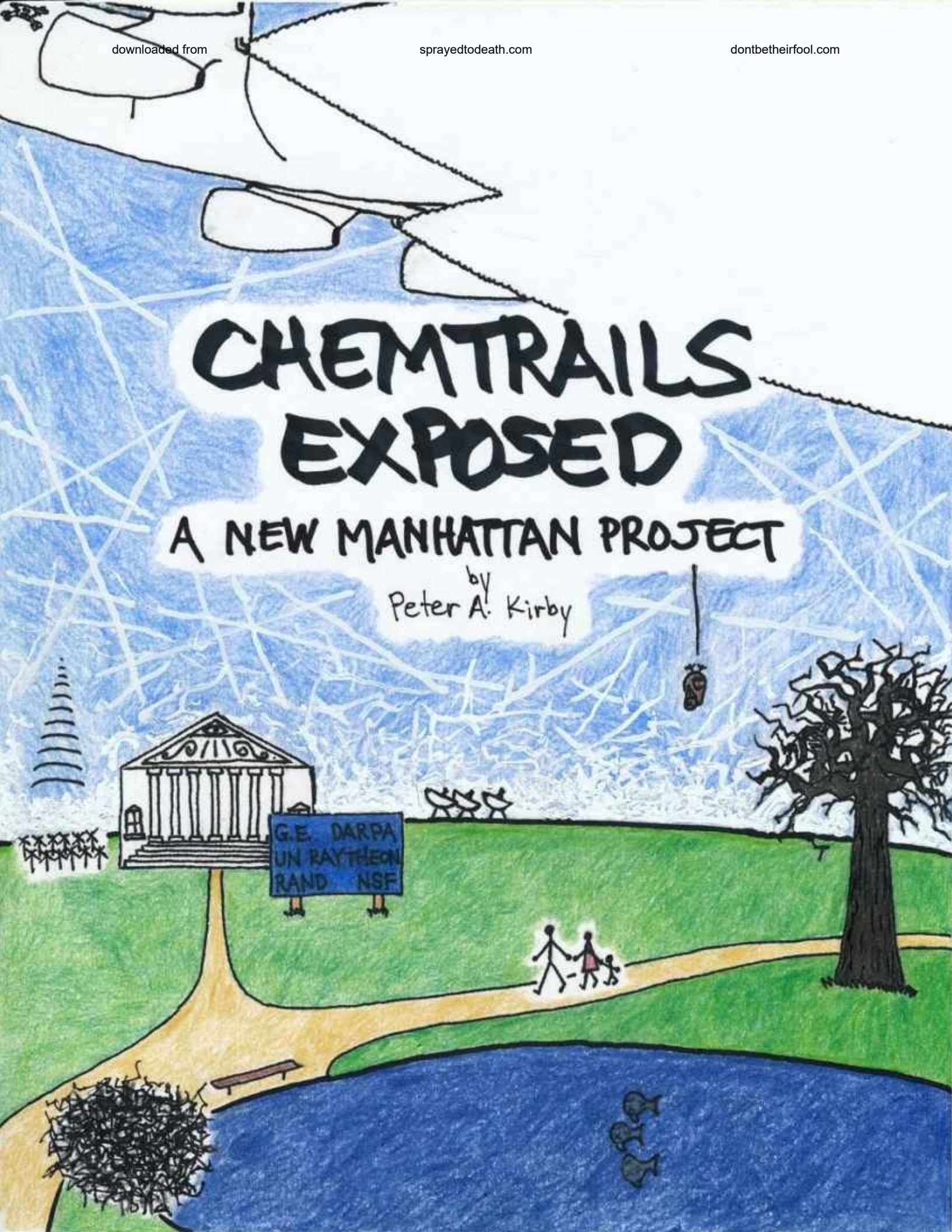


CHEMTRAILS EXPOSED

A NEW MANHATTAN PROJECT

by
Peter A. Kirby



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First Edition

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THANKS

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This book is dedicated to the memory of my father
Patrick A. Kirby (1926-2005)

At a time of universal deceit, telling the truth is a revolutionary act.

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INTRODUCTION

There are hundreds of specialized jet aircraft routinely spraying the Earth and billions of its inhabitants with megatons of toxic metals. It is part of the first planetary level scientific endeavor. In fact, this scientific endeavor is the biggest in Human history... and it is a big secret. I know. These are shocking claims.

As the project went on above my head, I as well was for many years unaware of this information. The first time I learned about the chemtrail conspiracy, I did not believe it. Why would anyone destroy the Earth we all have to share in this way? It didn't make sense. I didn't want to believe it.

Whatever one's opinion or analysis of it may be, the fact of the matter is that it is happening. The vast majority of the evidence laid out in the pages of this book is irrefutable. If you have not done so already, I challenge you to come to grips with it.

This project is unbelievably diabolical. That is how it exists. A good mind has difficulty comprehending something so monumentally evil. As he plumbs the depths of this thing, your author often has trouble fathoming it. Many people are simply uninformed. Many people are disinformed because they listen to the corporate media propagandists. The simple fact that we are constantly breathing in toxins that dull our brains doesn't help. For whatever reason, the information is available, but most people do not and will never come to grips with these facts.

Whether or not the majority of our vaccine, GMO, and fluoride-addled American public comes to grips with these facts is largely irrelevant. Irrelevant people will remain so. That's the majority of the population. They will go along with whatever comes along. When death comes along, they will gladly slit their own throats. The important thing is that *you* are reading this book. The important thing is that *you* are properly informed. The important thing is that *we* do something about it.

Are the people executing this Project going to just get away with it? Can people just spray us with whatever they want, whenever they want? What type of precedent does that set? If we are to have a rule of law, this Project must be fully exposed. This book is part of that process. Let this book help stop the spraying and contribute to the largest class-action lawsuit in history.

Prepare to know the forbidden truth. When we are informed, we are prepared for the enforcement of our Constitution and Bill of Rights. When we are informed, we are prepared for America's (and the world's) true destiny. When we are informed, we are ready to send Humanity to the stars, building giant space stations and populating other planets and solar systems while experiencing the most profound era of prosperity in Human history. If we remain uninformed, we will remain shackled; enslaved to the establishment indefinitely. Please continue reading and help set yourself free by learning all about the New Manhattan Project.

Chapter 1

CHEMTRAILS EXPOSED

According to all United States federal government organizations, chemtrails do not exist and are a conspiracy theory. They say the white lines in the sky stretching from horizon to horizon are normal jet contrails. So, presumably using theoretical physics, these contrails can first appear as small white lines high in the sky then, over the course of hours, expand as they float down to earth; first creating clouds and finally a haze. Our so-called 'leaders' are either being ignorant or deceptive because this is what happens regularly.



Contrails (not to be confused with chemtrails) are visible jet airplane engine emissions consisting of water and soot. Most of the time, jet airplane exhausts are invisible. But when normal jet engine exhausts are introduced into an atmosphere of high humidity (over 70%) and low temperature (below -76 degrees F), a contrail forms. Contrails then quickly (under 15 seconds) disappear.

Chemtrails are a different animal. Chemtrails are jet airplane emissions which do not quickly dissipate. They are seen in the sky above our heads on a daily basis. They are the lines in the sky. Your subconscious knows them already. The word 'chemtrail' is an amalgamation of the words 'chemical' and 'contrail.' You could call chemtrails 'chemical contrails' or 'chemical trails.' The earliest mention of the word 'chemtrail' the author could find appears as the title of a 1990 U.S. Air Force Academy chemistry manual. Lab tests of rainwater samples from around the world have shown that chemtrails most commonly consist of chemicals including (in order of prevalence): aluminum, barium and strontium.

The word 'chemtrail' is recognized by the Oxford dictionary. It is defined as, "A visible trail left in the sky by an aircraft and believed by some to consist of chemical or biological agents

The term 'persistent contrail' is a politically correct oxymoron which this author uses only to condemn. The term creates confusion. Contrails do not persist. Chemtrails do. The earliest use of the term known to the author appears in the 1970 proceedings of the Second National Conference on Weather Modification.

Oh no they wouldn't!

Oh yes they would. Dr. Leonard Cole's 1988 book "Clouds of Secrecy" documents our military intentionally exposing unsuspecting United States citizens to chemicals and biologicals hundreds of times over the past 60 years. To this day, it is our military's stated position that they have the legal right to spray us with whatever they want whenever they want as long as they classify their activities as 'research' (ch 9). As we will see, this is exactly what they have done.

Andrew Goliszek's illuminating book "In the Name of Science" provides another examination of our government's indiscretions. Going back many decades, this book documents hundreds of pounds of chemical and biological agents ranging from VX nerve gas to zinc cadmium sulfide to bacillus globigii to radioactive iodine having been released onto the unsuspecting public in thousands of open air tests conducted all over America. Many of these experiments involved the agents being released from airplanes.

Governments spray us with toxic chemicals openly. What about cloud seeding? What about the spraying of malathion in the 1980s to save California from the Mediterranean Fruit Fly; or the more recent Light Brown Apple Moth sprayings? In some areas of the Country, city works trucks will routinely drive down the street spraying herbicides all over the sidewalk and anyone who might be unfortunate enough to be walking down it.

Observations

A typical chemtrail first appears as a white line high in the sky emitted by a large jet airplane. These lines become diffuse as they float down to earth. Heavy spraying creates a thick haze over vast areas. Chemtrails often form Xs and sometimes grid patterns. Chemtrails are also sometimes sprayed in a circular fashion. Although seemingly endless amounts of photos and videos are posted online, you can observe these phenomena with your own eyes. One just needs to look up.

Although trolls online try to drag people into highly technical, obscure, and deceptive arguments about the formation of contrails, simple applications of deductive reasoning show that we are being sprayed. When two jet airplanes fly at a similar altitude, why is it that one will emit a persistent trail while the other does not? The fuels are not different. Jet fuel, like gasoline, is standardized. How does a trail appear behind one engine of the same airplane, but not the other? How does a plane fly along emitting a trail that alternately persists and then abruptly does not, then abruptly does again? It is safe to assume that the engine is not being turned off and on. Why is it that one day the sky will be full of lines in every direction and then the next day there will be none, even though the weather is identical? Why do the lines in the sky usually not follow common flight paths? Your author has witnessed all these things and you can too.

When they spray above cloud banks, we get a milky sky. Chemtrails sprayed above clouds descend and commingle with clouds below to cause a loss of cloud definition.

Chemtrail spray causes iridescence. Often when they spray, something called a 'sun dog' occurs. Also referred to as a 22 or 46 degree halo, a sun dog is a big rainbow-like halo encircling the sun. A sun dog's colors are not as bright as a rainbow's. You may also see little rainbow segments called 'chembows.' Lastly, you may see small, iridescent cumulus clouds. Spraying in general tends to make clouds iridescent; especially around the edges and when backlit by the sun. Chemtrails manifest themselves in many other ways not noted here. These are merely the most common and noticeable.



Sun dog w/ chemtrail



Iridescent cumulus cloud

Image source: Marian Sutherland

Coastal areas are seeing a depletion of marine layers. There is a district of San Francisco, CA (the author's home town) called the Sunset District. Until about 2005, this district had literally

5-10 days of sunny weather per year. Before 2005 the adjacent Pacific Ocean provided the Sunset District with an almost ever-present, foggy marine layer. Now in the Sunset District it is sunny most days. Chemtrail spraying has destroyed the Sunset District's marine layer. Although your author does not travel much and therefore he has not observed this in other coastal areas, it is safe to assume that chemtrail spraying has had similar effects along the rest of the California Pacific Coast.

Personally, I can smell and taste chemtrails. Chemtrail spray has an ashy, metallic smell and taste. Also, chemtrail spray irritates my eyes and makes them water. After so much exposure, many others are not sensitive enough to observe these things. As we will see in chapter 13, there are ways to unclog your senses.

At the time of this writing, chemtrails are appearing almost every day above San Francisco and San Rafael, CA. Judging by the first wave of reports, large-scale chemtrail spraying became nationally prevalent in the mid 1990's. Although chemtrails have been mostly documented in North Atlantic Treaty Organization (NATO) countries such as America, Japan, Australia, and those in Europe, this is a global operation. The number of chemtrail reports from all around the world have been steadily increasing.

Geoengineering

The most common reason for jet airplanes to be routinely emitting chemical sprays is weather modification. Geoengineers have been publicly proposing just that.

Many people calling themselves geoengineers have appeared on many television and Internet broadcasts. They propose spraying megatons of aluminum into the atmosphere utilizing jet airplanes. They say it can save us from global warming. They don't admit that it is currently happening, they just say it might be good.

Although geoengineering encompasses many schemes such as 'fertilizing' the ocean with lead filings or building giant terraforming machines to remove atmospheric carbon dioxide, the most famous and most promoted geoengineering scheme is something called Solar Radiation Management (SRM). Solar Radiation Management involves spraying fine particles into the stratosphere from jet airplanes. Amongst us common folk, the term 'geoengineering' has become synonymous with SRM. Proponents of all forms of geoengineering claim these activities will save us from the dreaded global warming and climate change.

The term 'geoengineering' was introduced in a 1977 paper by Cesare Marchetti titled "On Geoengineering and the CO2 Problem." It appeared in the premiere edition of a publication called *Climatic Change*.

A most fundamental concept of what was synonymously called 'planetary engineering' goes back to a Manhattan Project scientist. Nobel Prize winning chemist and Atomic Energy Commission chairman Glenn Seaborg championed the use of atomic energy as a panacea which could move mountains, divert rivers, and make the deserts bloom. As seen in Seaborg's proposals, Geoengineering is broadly defined as the large-scale manipulation of Earth's natural systems.

A 1945 document titled "Outline of Weather Proposal" by Vladimir K. Zworykin was also influential in geoengineering's early development. As geoengineering today has come to mean, more specifically, an effort to modify the Earth's climate, Zworykin's paper has been proven prescient. Along with some exogenous ideas such as the use of flamethrowers to modify

climate, "Outline of Weather Proposal" originated other more enduring geoengineering concepts such as the use of oil as an artificial surface coating for bodies of water. This document also called for a global weather control program.

In the early months of 1958, the Solar Radiation Management geoengineering thesis was first mentioned in a paper co-authored by Bernard Vonnegut (ch 2) which appeared in the "Final Report of the Advisory Committee on Weather Control." The paper reads, "The radiation properties of the atmosphere can be altered by the introduction of gases or aerosols and by cloud seeding." The "Final Report of the Advisory Committee on Weather Control" is the most cited weather modification document ever.

In June of 1958, weather modifier Howard T. Orville wrote an article for *Popular Science* titled "Weather as a Weapon" which not only makes an early mention of the SRM geoengineering thesis, but also contains the earliest mention of the theory of man-made global warming yet known to the author.

The earliest mention of the geoengineering solar radiation management thesis as well as the theory of man-made climate change by a top-level government organization is found in a 1965 document by the Environmental Pollution Panel of the President's Science Advisory Committee titled "Restoring the Quality of Our Environment." The document reads:

"The climatic changes that may be produced by the increased CO₂ content could be deleterious from the point of view of human beings. The possibilities of deliberately bringing about countervailing climatic changes therefore need to be thoroughly explored. A change in the radiation balance in the opposite direction to that which might result from the increase of atmospheric CO₂ could be produced by raising the albedo, or reflectivity, of the earth. Such a change in albedo could be brought about, for example by spreading very small reflecting particles over large oceanic areas. The particles should be sufficiently buoyant so that they will remain close to the sea surface and they should have a high reflectivity, so that even a partial covering of the surface would be adequate to produce a marked change in the amount of reflected sunlight. Rough estimates indicate that enough particles partially to cover a square mile could be produced for perhaps one hundred dollars. Thus a 1% change in reflectivity might be brought about for about 500 million dollars a year, particularly if the reflecting particles were spread in low latitudes, where the incoming radiation is concentrated. Considering the extraordinary economic and human importance of climate, costs of this magnitude do not seem excessive. An early development of the needed technology might have other uses, for example in inhibiting the formation of hurricanes in tropical oceanic areas."

"According to Manabe and Strickler (1964) the absorption and re-radiation of infrared by high cirrus clouds (above five miles) tends to heat the atmosphere near the earth's surface. Under some circumstances, injection of condensation or freezing nuclei will cause cirrus clouds to form at high altitudes. This potential method of bringing about climatic changes needs to be investigated as a possible tool for modifying atmospheric circulation in ways which might counteract the effects of increasing atmospheric carbon dioxide."

Note how at the end of the first paragraph, the authors state that injecting small particles into the atmosphere can not only save us from climate change, but also achieve weather modification. The truth is softly spoken.

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In later chapters of this book, we will have much more about this relationship between today's New Manhattan Project and the theory of man-made climate change.

Geoengineers say they want to alter the climate. Climate is synonymous with weather. Because geoengineers are publicly advocating for climate modification, they are publicly advocating for weather modification. Just as climate is synonymous with weather, geoengineering is synonymous with weather modification.

The thesis of this book is that geoengineering, specifically the spraying of stratospheric aerosols, is a current, ongoing operation. It's not done to save us all from global warming, though. It is mostly done as part of a global weather modification project. Just as the prominent geoengineer David Keith has claimed that he doesn't know what a chemtrail is, geoengineers are simply playing word games. This thesis cannot and will not be disproven. The New Manhattan Project exists. Chemtrails are real.

Geoengineering is simply a new name for an old global weather modification project with roots going back to the 1940s and earlier. The history of weather modification, or 'weather control' as the Library of Congress calls it, is the history of geoengineering.

'Cloud seeding,' which has been done openly for a long time, is a pre-cursor to today's geoengineering programs. Government agencies officially oversee the cloud seeding industry. There are many companies. They have an industry association. They engage in conventional cloud seeding activities where permitted aircraft dump silver iodide on us. But that's old technology. As this book will explain, today's geoengineers spray us with completely different materials and we are assaulted by this project's electromagnetic energy to boot.

You see, what today's scientific establishment calls 'SRM geoengineering' is actually code for the greatest scientific endeavor in Human history. This first planetary level scientific project involves the dispersion of tiny metallic particles from aircraft (mainly aluminum oxide) which are then manipulated en masse by electromagnetic energy generated by ground-based antennas called 'ionospheric heaters.' In this way, the weather can be modified and/or controlled. It is this use of electromagnetic energy which distinguishes the New Manhattan Project from conventional weather modification activities.

The New Manhattan Project

Have you heard of the original Manhattan Project? It was the gigantic, super-secret government research and development project which produced the atomic bombs dropped on Japan in 1945. It was a massive undertaking all kept secret through compartmentation. To date, the Manhattan Project and the Apollo moon missions are America's greatest admitted national scientific efforts.

Over the years, many weather modifiers have compared weather control to the power of atomic bombs. Weather modification pioneering G.E. scientist and Nobel Prize winner Irving Langmuir often mused about it. The 'Father of the Hydrogen Bomb,' Edward Teller suggested using atomic bombs detonated in the sky as a means to modify the weather many times. In 1958, high-altitude atmospheric detonations of nuclear bombs were actually carried out in Operations Argus, Newsreel (as part of Operation Hardtack), and Starfish. Edward Teller advocated for weather control in all of his post-war years. Ross Gunn, Donald Hornig, Vannevar Bush, Bill Nierenberg, and John von Neumann are some other famous scientists who worked on the original Manhattan Project and then later contributed to the atmospheric

sciences. It is this way because both atomic bombs and weather control are subjects for the physical sciences. They are physics problems. This is a new Manhattan Project in weather control.

The scientific era of weather modification began only one year after the detonation of the first atomic bombs (see chapter 2). Five years later in 1951, scientists who brought us that initial foray into weather control were testifying before Congress, enumerating the similarities between weather modification and atomic bombs. During 1951 testimony before the United States Senate, C. G. Suits, the director of research at General Electric Laboratories said:

"It is a fact that has been repeatedly demonstrated that under suitable circumstances one may with 1 pound of dry ice cause a thundercloud to precipitate a heavy rainstorm. In a typical case the energy of condensation which has been released is equivalent in magnitude to the energy of several atomic bombs. There are so many points of similarity between the release of atomic energy and the release of weather energy that it is well to consider them in detail. The similarities are - and I quote from a letter I wrote to you, Senator Anderson, dated November 22, 1950: 1. Large amounts of energy are involved. The energy release (in the form of heat or condensation) in a small thunderstorm equals the energy of several atomic bombs. 2. A chain reaction is an important basic mechanism in many meteorological phenomena and in atomic reactions. This permits a small initiating force to generate large-scale effects. 3. The national defense and the economic possibilities are vital aspects of both problems. 4. Both problems transcend State and National boundaries in their influence and importance, and ultimately will involve international agreements. 5. Extensive research is required to fully develop the economic and military applications of both forms of energy."

General Electric, who we will soon recognize as the original developers of the New Manhattan Project, also developed the first peaceful application of atomic energy. In the mid 1950s, G.E. began using a prototype nuclear submarine reactor to generate electrical power at West Milton, New York.

In 1954, one of President Eisenhower's science advisors, the aforementioned Howard T. Orville wrote in an article titled "Weather Made to Order?:"

"And before we can hope to control the weather, we must learn what causes weather. To gain this knowledge would probably require an effort as large as the Manhattan Project for the development of atomic energy."

In 1961, distinguished Rear Admiral Luis DeFlores advocated that the US government should, "Start now to make control of weather equal in scope to the Manhattan District Project which produced the first A-bomb."

Geoengineers themselves are calling this National effort in weather modification a new Manhattan Project. In late 2009 and early 2010, Congress heard detailed testimony from top geoengineers. They called the hearings "Geoengineering: Parts I, II, and III." These geoengineering hearings referenced the Manhattan Project *three times*. Geoengineer Philip Rasch, in written testimony, provided the best example:

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"In my opinion before a nation (or the world) ever decided to deploy a full scale geoengineering project to try to compensate for warming by greenhouse gases it would require an enormous activity, equivalent to that presently occurring within the modeling and assessment activities associated with the Intergovernmental Panel on Climate Change (IPCC) activity, or a Manhattan Project, or both. It would involve hundreds or thousands of scientists and engineers and require the involvement of politicians, ethicists, social scientists, and possibly the military. These issues are outside of my area of expertise. Early 'back of the envelope' calculations estimated costs of a few billion dollars per year for full deployment of a stratospheric aerosol strategy (see for example, Crutzen, (2006) or Robock et al (2009b))."

Documentation

The Western world's most highly powered scientific and other organizations have been involved in research of the atmospheric sciences and weather modification since early on. The Defense Advanced Research Projects Agency, Stanford Research International, the Rand Corporation, National laboratories, the National Science Foundation, the National Oceanic and Atmospheric Administration, the National Aeronautics and Space Administration, the Naval Research Laboratory, Air Force research, General Electric, Raytheon, the American Meteorological Society, the Massachusetts Institute of Technology and many more have contributed greatly.

There are hundreds (probably thousands) of applicable patents and government reports going back over 100 years. There are easily thousands of papers; many from some of the biggest names in science. Nobel Prize for chemistry winner Irving Langmuir devoted most of his later work to weather modification. The aforementioned Edward Teller is widely recognized for his work in the field. United States Science Czar John Holdren, University of Calgary professor David Keith, and Stanford University professor and Carnegie Institution member Ken Caldeira are currently the most prominent proponents.

Beginning in 1957 as a senator, then later as president, Lyndon B. Johnson spoke in favor of global weather control many times. In 1958 he stated:

"The testimony of the scientists is this: Control of space means control of the world, far more certainly, far more totally than any control that has ever or could ever be achieved by weapons, or by troops of occupation. From space, the masters of infinity would have the power to control the earth's weather, to cause draught and flood, to change the tides and raise the levels of the sea, to divert the Gulf Stream and change temperate climates to frigid... If, out in space, there is the ultimate position - from which total control of the earth may be exercised - then our national goal and the goal of all free men must be to win and hold that position."

On September 25, 1961 President John F. Kennedy addressed the United Nations proposing a global system of weather control. He said, "We shall propose further cooperative efforts

In his paper "How to Wreck the Environment," LBJ's presidential science advisor Dr. Gordon J.F. MacDonald wrote of man controlling weather. As a chapter in the 1968 book "Unless Peace Comes," MacDonald writes:

"Operations producing such conditions might be carried out covertly, since nature's great irregularity permits storms, floods, draughts, earthquakes and tidal waves to be viewed as unusual but not unexpected. Such a 'secret war' need never be declared or even known by the affected populations. It could go on for years with only the security forces involved being aware of it. The years of draught and storm would be attributed to unkindly nature, and only after a nation was thoroughly drained would an armed takeover be attempted."

As this book unfolds, we will have much more about the infamous Dr. MacDonald.

During House weather modification hearings in 1977, the former U.S. ambassador to the North Atlantic Treaty Organization (NATO) Harlan Cleveland advocated for more National (and international) weather modification efforts and said:

"The review here is an informal general theory of what kind of changes can be wrought in the atmospheric environment by what the experts call brute force, by seeding of various kinds in different circumstances - at the moment with chemical agents, perhaps in the future with forms of electromagnetic energy - and by altering the lower layers of the atmosphere."

Harlan Cleveland was the chairman of a government group called the Weather Modification Advisory Board. The Weather Modification Advisory Board submitted a paper to these proceedings titled "A U.S. Policy to Enhance the Atmospheric Environment." In this paper, they reiterate Mr. Cleveland's assertion, writing that Earth's atmosphere may be manipulated by, "Introducing perturbation energies to redirect the atmosphere's 'natural' energies. The seeding of different clouds in different ways, with chemical agents (and perhaps, in the future, with some form of electromagnetic energy),..."

We will have more about Dr. Cleveland in chapter 11.

A 1992 report by the National Academy of Sciences titled "Policy Implications of Greenhouse Warming" advocates the SRM geoengineering thesis. In this case, they suggest that, in order to save us from a slightly increased average global temperature, aircraft spray the Earth with megatons of sulfuric acid.

On April 28, 1997 at the University of Georgia, U.S. Secretary of Defense William S. Cohen said:

"Others are engaging even in an eco-type of terrorism whereby they can alter the climate, set off earthquakes, volcanoes remotely through the use of electromagnetic waves... So there are plenty of ingenious minds out there that are at work finding ways in which they can wreak terror upon other nations. It's real, and that's the reason why we have to intensify our efforts, and that's why this is so important."

The electromagnetic energy generators used as part of today's New Manhattan Project (ch 3) can produce earthquakes and set off volcanoes as well as alter climate.

The United Nations backed Intergovernmental Panel on Climate Change (IPCC) issued a 1999 report with a cover photo of three jet planes flying in formation and emitting trails entitled "Aviation and the Global Atmosphere." This report contained chapters titled, "Aviation-Produced Aerosols and Cloudiness" and "Modeling the Chemical Composition of the Future Atmosphere."

The Council on Foreign Relations has issued many publications about geoengineering. For example, their 2008 paper titled "Unilateral Geoengineering: Non-technical Briefing Notes for a Workshop at the Council on Foreign Relations" proposes spraying aluminum oxide dust into the stratosphere. As noted earlier, aluminum oxide has been found to be the number one chemtrail ingredient. See chapter 5.

The U.K. Royal Society published a 2009 report titled "Geoengineering the Climate: Science, Governance and Uncertainty" in which they propose SRM geoengineering and state, "A wide range of types of particles could be released into the stratosphere with the objective of scattering sunlight back to space."

During a 2009 presentation, referencing a picture of a chemtrail laden sky, European Organization for Nuclear Research (CERN) scientist Jasper Kirkby, PhD said, "These are not smoke trails. These are clouds which are seeded by jets dumping aerosols into the upper atmosphere." May we get a further clarification of that Dr. Kirkby, or have you said too much

During 2009 and 2010's aforementioned Congressional geoengineering hearings, testifying geoengineers proposed spraying substances from aircraft many, many times. Most testifying geoengineers characterized the practice as a cheap and effective way to mitigate global warming. Geoengineer Lee Lane writes the best example:

"Several proposed delivery techniques may be feasible (NAS, 1992). The choice of the delivery system may depend on the intended purpose of the SRM [solar radiation management] program. In one concept, SRM could be deployed primarily to cool the Arctic. With an Arctic deployment, large cargo planes or aerial tankers would be an adequate delivery system (Caldeira and Wood, pers. comm., 2009). A global system would require particles to be injected at higher altitudes. Fighter aircraft, or planes resembling them, seem like plausible candidates. Another option entails combining fighter aircraft and aerial tankers, and some thought has been given to balloons (Robock et al., 2009)."

They describe a program using retrofitted drone aircraft to spray particulates. In his response to a follow-up question by Chairman Bart Gordon, geoengineer Alan Robock writes:

"Certainly studies should be done of the feasibility of retrofitting existing U.S. Air Force planes to inject sulfur gases into the stratosphere, as described by Robock et al. [2009], as well as of developing new vehicles, probably remotely-piloted, for routine delivery of sulfur gases or production of aerosol particles."

During these Congressional hearings, the 'c' word was used twice. Former congressman Brian Baird (D - WA 3rd district) said the word first, "And so I applaud you all for suggesting that we are not going to have this — to rescue us by, you know, chemtrails or whatever people want to distribute into the air."

Chairman Baird used the word again when he jumped right into the conspiracies and said this:

"I will share with you, though, this idea of placing particles in the upper atmosphere. Are any of you familiar with the conspiracy theory known as chemtrails? Have you heard of this? It is a rather interesting phenomenon. I was at a town hall and a person opined that the shape of contrails was looking different than it used to, and why was that? I gave my best understanding of atmospheric temperature and humidity and whatnot, but the theory which is apparently pretty prevalent on the Net is that the government is putting psychotropic drugs of some sort into the jet fuel and that is causing a difference in appearance of jet fuel and allowing them to secretly disseminate these foreign substances through the atmosphere via our commercial jet airline fleet."

This next excerpt is from the hearing's charter:

"...negative public perceptions of geoengineering may also prove to be a powerful catalyst for emissions reductions. A study by the British Market Research Bureau found that while participants were cautious or hostile toward geoengineering, several agreed that they would actually be more motivated to undertake mitigation actions themselves after a large-scale geoengineering application was suggested."

They are saying that the suggestion of geoengineering may encourage people to voluntarily adopt carbon mitigation efforts. They're saying that geoengineering can be used as a threat to intimidate the public into accepting a lower quality of life. Who are the real terrorists?

The British House of Commons collaborated with the United States House of Representatives Science and Technology Committee to release a report on March 10, 2010 entitled "The Regulation of Geoengineering" in which they advocate geoengineering regulation. They are advocating for the legitimization of chemtrails.

Aurora Flight Sciences published a 2010 cost analysis study prepared under contract to the University of Calgary entitled "Geoengineering Cost Analysis" which states, "The goal of this study is to use engineering design and cost analysis to determine the feasibility and cost of a delivering material to the stratosphere for solar radiation management (SRM)." [sic] In this report, the authors write about utilizing different kinds of aircraft, including blimps, to spray stuff into the atmosphere. Of readily available solutions, it was found that retrofitting old jumbo jet airplanes would be the most cost effective choice. As we will see (ch. 4), this appears to be exactly what has been done.

In October of 2010, the United States House of Representatives Science and Technology Committee issued a report called "Engineering the Climate: Research Needs and Strategies for International Coordination." On the final page, this report advocates:

"It is the opinion of the Chair, in agreement with U.K. Committee, that further collaborative work between national legislatures on topics with international reach, such as climate engineering, should be pursued. The Chair also agrees that there are a range of measures that could be taken to streamline the process and enhance the effectiveness of collaboration."

In a 2011 report, the Congressional Research Service produced a paper called "Geoengineering: Governance and Technology Policy" in which the authors suggest an 'aerosol

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injection, or the dispersal of aerosols into the atmosphere by military aircraft.

A 2011 report by the Defense Science Board titled "Trends and Implications of Climate Change for National and International Security" advocates for solar radiation management geoengineering research.

The United Nations Educational Scientific and Cultural Organization (UNESCO) issued a report in November of 2011 titled "Geoengineering the Climate: Research Questions and Policy Implications." It proposes geoengineering and features a full color illustration of a jumbo jet spraying stratospheric aerosols (chemtrails).

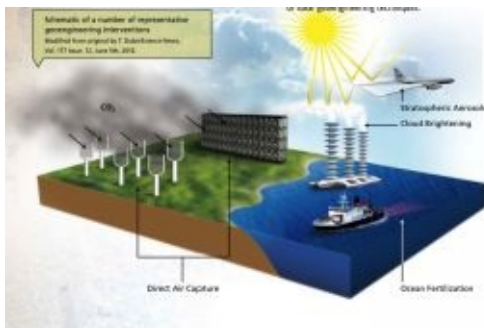


Image credit: UNESCO

Another very boring read proposing the injection of stratospheric aerosols arose from a 2011 meeting of geoengineers in Lima, Peru. A report called "IPCC Expert Meeting on Geoengineering" was produced by the UN's Intergovernmental Panel on Climate Change (IPCC) and the World Meteorological Organization.

On July 8 of 2015, at a big climate conference in Paris, France, high-profile climate guru Tim Lenton admitted that geoengineering is an ongoing program TWICE. Audience member Dr. Colin Pritchard asked:

"My question is again for Tim. Colin Pritchard, Edinburgh University. Hi, Tim. Thank you very much for your very cogent explanation. I would basically agree with you on geoengineering – except, may I infer that you prefer an enormous global-scale uncontrolled experiment in geoenginerring as opposed to a small-scale uncontrolled one? At the moment we are in the former. And it seems to be a little bizarre to prefer the former to the latter."

Lenton replied:

"I'm certainly not preferring carrying on with our current uncontrolled experiment. And I'm not – what's the right word – I'm not monolithically set against things that are being discussed under the banner of geoengineering. So it's quite a nuance... I think that's quite a nuance discussion to have, perhaps over lunch, because it really depends on the options you're considering. So you've got some things which would be reflective roofs and road surfaces that are very practical, local adaptation options against urban heat islands that, if you did on a large enough scale, could have some measurable effect on regional climate and I think are very sensible. So we have to just be... I think we have to be nuanced on specific proposals, specific technologies. But I think we can perhaps all agree that certainly none of us want to continue the current uncontrolled experiment."

There is so much other documentation regarding stratospheric aerosols, geoengineering and the regulation thereof from so many different high-powered organizations, that it is far too much to mention here. If one names all of the most prestigious American and European university science programs, and applicable scientific organizations and publications, then one is barking up the right tree. Only the most well known and pertinent examples are presented here.

Although the story deserves much more coverage, local professional news reporters around the nation have investigated and/or made mention of the chemtrail phenomenon many times. A plethora of professional newspaper, magazine, and Internet based reports about chemtrails have been published.

There is a global grassroots political movement against chemtrails and geoengineering. There are hundreds of thousands (probably millions) of independent eyewitness accounts on the Internet. Millions of people are already fully chemtrail aware. People from all walks of life around the world have come forward and spoken out against chemtrails. See chapter 10. Airline pilots, police officers, U.S. Marines, air traffic controllers, a senior Air Traffic Control manager, Air Force tanker crews, scientists and many others are speaking out.

Eyewitness accounts

This section is comprised of excerpts from the 2004 book "Chemtrails Confirmed" by William Thomas. William Thomas is an award winning Canadian journalist. Thomas' writing and photography have appeared in more than 50 publications in eight countries, including translations into French, Dutch and Japanese. His editorial commentaries have appeared in The Globe and Mail, The Toronto Star, The Vancouver Sun and Times-Colonist newspapers. A frequent radio talk-show guest, William Thomas has also appeared on the CBC and New Zealand's national television. He currently lives and works among the Gulf Islands of British Columbia:

"It was nearly noon when S.T. Brendt awoke and entered the kitchen of her country home in Parsonfield, Maine. As she poured her first cup of coffee, the late night reporter for WMWV radio could not guess that her life was minutes away from drastic change."

"Her partner Lou Aubuchont was already up, puzzling over what he had seen in the sky a

half hour before." The fat puffy plumes arching up over the horizon were unlike any contrail he had ever seen, even during his hitch in the Navy."

"Lou got up and looked. What kind of clouds run exactly side-by-side in a straight line? He wondered. It's just too perfect to happen naturally. When he said he wasn't sure, S.T. stopped smiling and went outside."

"Looking up towards the southeast over West Pond, she spotted the first jet. A second jet was laying billowing white banners to the north. Both aircraft appeared to be over 30,000 ft. Turning her gaze due west, Brendt saw two more lines extending over the horizon. She called Lou. Within 45 minutes the couple counted 30 jets."

"This isn't right, S.T. thought. We just don't have that kind of air traffic here. While Lou kept counting, she went inside and started calling airports. One official she reached was guarded but friendly. He had relatives in West Pond."

"The Air Traffic Control manager told Brendt her sighting was 'unusual.' His radars showed nine commercial jets during the same 45-minute span. From her location, he said, she should have been able to see one plane."

"And the other 29? The FAA official confided off the record that he had been ordered 'by higher civil authority' to re-route inbound European airliners away from a 'military exercise' in the area. 'Of course they wouldn't give me any of the particulars and I don't ask,' he explained. 'I just do my job.'"

"Excited and puzzled by this information, S.T. and Lou got into their car and headed down Route 160. Looking in any direction they could see 5 or 6 jets flying over 30,000 ft. Never in the dozen years they'd lived in rural Maine, had they seen so much aerial activity. As a former U.S. Navy intelligence courier, Aubuchont was used to large-scale military exercises. But he told S.T. he had never seen anything this big."

"It looked like an invasion,' he later recounted. Another driver almost went off the road as he leaned over his dashboard trying to look up. As they passed, he acknowledged them with a nod."

"As far as they could see stretched line after line. Two giant grids were especially blatant. In stead of dissipating like normal contrails, these sky trails grew wider and wider and began to merge. Looking towards the sun, Aubuchont saw what looked like 'an oil and water mixture' reflecting a prismatic band of colors."

"At approx. 3:55 they headed home to Parsonfield. They (the jets) were still up there. What's worse is that these grids were now merging to the point of greying their beautiful skies... By 5:30 their beautiful day had turned dingy and hazy like air pollution and the sunset was dirty. Lou remembers seeing the last jets at about 5:15 pm leaving chemtrails. They were spaced further apart then the earlier jets."

"Richard Dean called back. After receiving S.T.'s message, the assistant WMWV news director had gone outside with other news staff and counted 370 lines in skies usually devoid of aerial activity. The most jets they could see at any one time was 17."

"Dave Dickie's World Landscapes company performs contract landscape work for the City of Edmonton. 'Some contracts require us to utilize the services of environmental labs for soil

tests,' says Dickie. 'Recent soils analysis have come back with a high EC rating 4.1 (toxic) and we've had some soil sources rejected of course they did not meet specifications.'"

"In an interview with me on Nov. 23, 2002, Dickie explained that city landscape crews were finding widespread nutrient deficiency soils could cause severe problems for plant life - including trees."

"Wait,' I interrupted. 'Aluminum sucks nutrients from the soil.'"

"No question' answered this soil expert. Moreover, added Dickie when measuring the electrical conductivity in Edmonton soil samples, 'city specifications call for a reading no higher than 1.'"

"Dickie's crews are now finding readings from 4.6 as high as 7."

"The 'chlorosis' condition resulting from this drastically high electrical conductivity in soil was impacting their landscaping business, Dickie explained. 'We were not able to determine the cause of the EC [electrical conductivity], and many reasons are possible.'"

"Presuming that unusual metal content in the soil could be causing the high readings, Dickie obtained samples of a fresh snowfall in sterile containers and took them to NorWest Labs in Edmonton. As explained, 'Our most recent snowfall was tested for aluminum and barium and we were not surprised with the results. You've said it all and this just substantiates some of your claims.'"

"In Nov. 2002, lab tests of snow samples collected by the city of Edmonton, Alberta between Nov. 8 - 12, confirmed elevated levels of aluminum and barium. NorWest Labs lab report #336566 dated Nov. 14, 2002 found: aluminum levels at 0.148F milligrams/litre and barium levels of 0.006 milligrams/litre."

"Because aluminum is ubiquitous in the environment, and its chemistry depends on soil pH and mineralogical composition, it is difficult to provide generalized estimates of natural background concentrations."

"But according to Dickie, the NorWest Lab techs told him, 'That's interesting. Elevated levels of aluminum and barium are not usually found in Alberta precipitation.'"

"It may not prove that the aluminum came from atmospheric programs,' Dickie admits. 'However we are going to sample precipitation from various areas within a 40 mile radius of the City of Edmonton to determine aluminum/barium within precipitation.'"

"Dickie says it's simple to test for aluminum and barium in soil samples. Labs typically charge about \$15 for these tests. I suggested he add quartz to the list of chemtrail fallout components to check for. In Espanola, quartz predominated rainfall samples, which also showed hazardous levels of aluminum."

"Though it must be emphasized that neither Dickie nor NorWest Labs are making any claims regarding these early test results, the correlation of known chemtrail chemistry with Edmonton's soil samples is compelling."

"This was hot. But imagine my shock when Dickie told me that he regularly visits Air Traffic Control at the Edmonton municipal airport and watches the chemplanes making repeated passes over the city!"

"I've been a plane spotter all my life,' Dickie explained. Blessed with good friends at work in the tower, he has watched radar-identified KC-135s 'on many occasions.'"

"Last Father's Day (2002), Dickie and an excited group of 12 year-olds watched two sorties by two KC-135s. Petro 011 and Petro 012 were tracked by radar as HA (High Altitude) targets

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flying at 34,000 and 36,000 feet - 'one to the south, and one to the north of the city.'

"Both USAF tankers had flown south out of Alaska. As Dickie, the kids and the controllers watched, the big jets began making patterns over Edmonton - 'circuits' the controllers called it. The Stratotankers were working alone in 'commanded airspace' from which all other aircraft were excluded."

"And they were leaving chemtrails."

"The signature is significant,' commented one radar operator, referring to a trail clearly visible on the scope extending for miles behind the KC-135. In contrast, a JAL flight on the display left no contrail."

"Going outside, Dickie and several controllers scanned clear blue skies. They easily located the KC-135 leaving its characteristic white-plume 'signature.' Visibility was outstanding. They also clearly saw the JAL airliner at a similar flight level. It left no contrail at all."

"On other occasions, Dickie has watched KC-135s on Edmonton radar leaving lingering trails as low as 18,000 feet."

"We see these guys up here a lot,' Dickie says radar techs told him. The tanker flights originate in Alaska, grid the Edmonton area, and continue on into the States."

"The following unedited transcript is a recorded message from a Dec. 8, 2000 call by a Canadian aviation authority from the Victoria International Airport to a local resident."

"Stewart was responding to a call the previous day demanding to know why intense aerial activity had left lingering X's, circles and grid-like plumes over the British Columbia capitol on Dec. 6 and 7."

"Mark, it's Terry Stewart, Victoria Airport Authority. Just calling you back from your comment. From what I gather, it's a military exercise; U.S. and Canadian air force exercise that's goin' on. They wouldn't give me any specifics on it. Hope that helps your interest. Very odd. Thanks a lot. Bye bye now."

All this and much more can be found in William Thomas' groundbreaking book "Chemtrails Confirmed" available at his website WillThomasOnline.net. Click on the "William Thomas ebooks" tab and you will be taken to a page where you can download a copy of "Chemtrails Confirmed."

Hard evidence

Francis Mangels has a Bachelor of Science in Forestry from the International School of Forestry at Missoula, spent 35 years with the U.S. Forest Service as a wildlife biologist and worked several years with the USDA Soil Conservation Service as a soil conservationist. Today he lives in Mt. Shasta, CA and works as a master gardener.

He took a sample of water from his backyard rain gauge on Feb. 1, 2009 and submitted it to Basic Laboratory of Redding, CA on Feb. 2, 2009. This sample showed aluminum at a level of 1010 micrograms per liter (ug/l). This same sample also showed barium at a level of 8 ug/l. Using the same sample method and laboratory, he took a sample on Oct. 14, 2009 which showed aluminum at a level of 611 ug/l. The barium should not be there in any amount. He

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says that chemtrails have been known to consist of both barium carbonate and barium oxide. Barium carbonate is used in rat poison. The normal level of aluminum in rainwater is .5 ug/l. These samples show levels of aluminum at 2020 times and 1222 times the normal levels. There is no heavy industry in the Mt. Shasta area. There is no reason, other than chemtrails, for this stuff to be showing up at these levels.

As we will see in chapter 5, these test results have been corroborated hundreds, possibly thousands of times.

The Arizona Department of Environmental Quality (ADEQ) produced data showing elevated levels of barium in surface water between 1988-2004. Along with other elevated readings, a sample from the East Verde River near Payson, AZ taken on July 19, 1999 showed barium at a level of 340 micrograms per liter (ug/l). The Environmental Protection Agency (EPA) says the average surface water concentration of barium is 43 ug/l.

The ADEQ analyzed many water samples taken at different times from the Nogales Wash Channel between 1993 and 2002. Among other elevated readings, they found barium at levels of: 850 ug/l, 950 ug/l and 900 ug/l. The EPA says that 99.4% of surface water contains 2 to 340 ug/l barium.

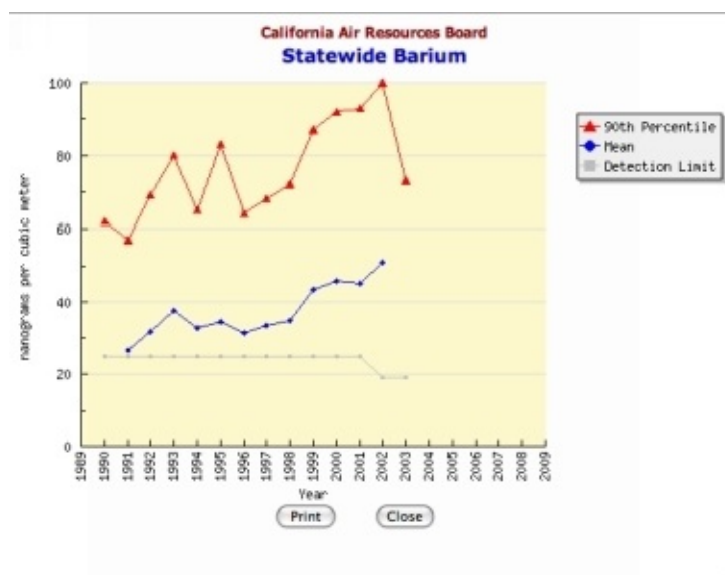
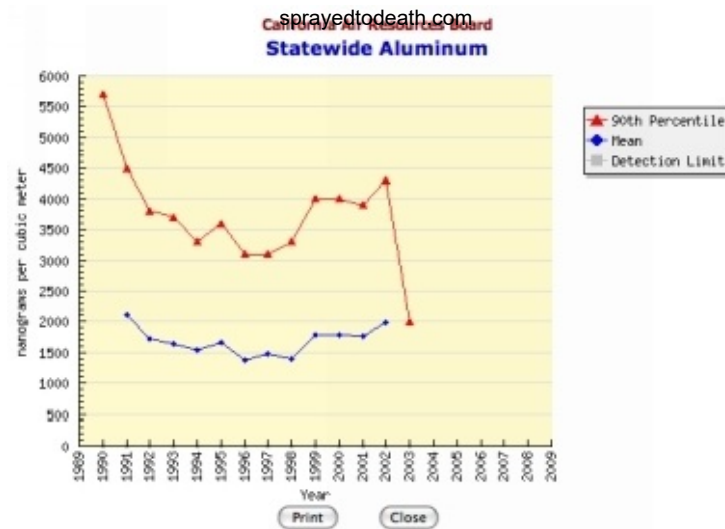
The ADEQ analyzed many water samples taken at different times between 1988-2004 at the Verde River below Horseshoe Dam. Among many other elevated readings, a sample taken on July 19, 1990 showed barium at a level 560 ug/l and another sample taken within a year showed barium at a level of 700 ug/l.

In June of 1996, the ADEQ analyzed water samples taken from the Buckeye Canal. The lab report showed barium at a level of 570 parts per million.

In July of 1999, the ADEQ sampled water from the Little Colorado River Basin and found aluminum at 150,000 ug/l or 150 mg/l or .15 g/l. This reading is made even more interesting by the fact that in September of 2002 AND in March of 2005, the ADEQ tested the same river basin and found NO aluminum. What accounted for this giant aluminum spike?

The mission statement of the California Air Resources Board (CARB) is, "To promote and protect public health, welfare and ecological resources through the effective and efficient reduction of air pollutants while recognizing and considering the effects on the economy of the state." This organization is not serving its purpose.

Data produced by the CARB shows elevated levels of chemtrail toxins. Between 1990 and 2002, CARB ambient air statewide average data shows elevated and increasing levels of aluminum and barium. From 1990 to 2002, aluminum was detected in the range of 1500 to 2000 nanograms per cubic meter. Barium, which between 1990 and 2002 consistently trended upwards, reached a peak of 50.8 nanograms per cubic meter in 2002.



Images source: the California Air Resources Board

The CARB classifies aluminum and barium as toxic compounds. The CARB website says, "For toxics compounds, there is generally no threshold concentration below which the air is healthy. For toxics compounds, the greater the quantified health risk, the more unhealthy the air is." In other words, *any* aluminum or barium is unhealthy. There *are no safe levels* except zero. Remember, these are *statewide averages*. God forbid you might be living in an area that increased the average.

You may ask why we are only referencing data up to 2002. This is 2016. Where is the missing data? The answer is that data from between 1990 and 2002 is the only data which the CARB has widely distributed. As far as statewide averages for ambient aluminum and barium are concerned, these years are the only years which their website and their "California Ambient Air Quality Data" DVD show. Their Public Information Officer Dimitri Stanich curiously *refused to answer questions about the missing data*. He referred me to documents which did not address the issue.

After discussions with staff, Mike Miguel, the chief of the Quality Management Branch of the Monitoring and Laboratory Division, wrote me an email dated Aug. 22, 2011 stating, "It is

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my understanding that the toxics air monitoring network (samples collected in Summa canisters) stopped analyzing for these compounds due to the low concentrations. However, the PM2.5 network does analyze for these compounds and that data was provided in the analyses and CD." [sic]

A statewide average of barium at 50.8 nanograms per cubic meter and aluminum at 2000 are low concentrations? Any levels of detectable aluminum or barium have been classified as unhealthy. The concentrations were trending upwards, yet they stopped analyzing for these compounds? This author has scoured their website, written letters and made many phone calls to the CARB and has not heard of or seen this missing data presented in any CD.

Thankfully, other people have been asking for this missing data as well. The organization known as Environmental Voices requested the missing data and on September 15, 2010, they got it.

Amazingly, after data showing many years of elevated and increasing levels of aluminum and barium, this newly produced data showed *much lower* levels. That's good news, right? We want to believe that everything is as it has always been. The problem is that the newly released data contradicts the previously released data.

Let us look at data for the year 2002 both new and old. 2002 is a year for which the CARB widely distributed data *and* it is a year for which they have provided data to only a select few researchers such as your author due to the efforts of Environmental Voices.

We will refer to the widely distributed data as the 'old' data and the thinly distributed data as the 'new' data. The old data says that in 2002 the statewide average for ambient aluminum was 1980 nanograms per cubic meter. The new data says that the statewide average in 2002 was 67.5 nanograms per cubic meter. The new data also says that statewide average aluminum concentrations generally remained at this level through 2009.

As far as barium goes, the old data says that the statewide ambient air average barium concentration for 2002 was 50.8 nanograms per cubic meter. The new data says it was 27.5 nanograms per cubic meter. The new data says that statewide average barium concentrations only trended lower from 2002 to 2009.

Are certain people at the CARB trying to hide something? Why does their Public Information Officer, whose job is to answer questions from the public, refuse to answer questions about missing data? Why does he obfuscate the truth by referring me to documents that don't answer the question? Why does one of their division chiefs' response not make sense? How is it that data released to only a select few magically reduces the problem? Why don't they post this new data on their website? All their answers so far only leave us with more questions.

In conclusion

This introductory chapter alone provides much convincing evidence for the existence of a new Manhattan Project in weather modification. For the researcher, the problem is not a lack of documentation, rather it is a problem of too much. This project is way too big to fully cover up. The supporting research is public. Within the literature of the supporting research, we get glimpses of the New Manhattan Project. The next chapter examines the publicly disclosed scraps of what you are not supposed to know. The rest of this book details the many aspects of this Project.

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Chapter 2

A HISTORY of the NEW MANHATTAN PROJECT

Today's chemtrail spraying operations involve airplanes saturating our atmosphere with particles influenced by electromagnetic energy for the purpose of weather modification. As we have seen in the first chapter, lots of evidence supporting this assertion exists.

Motives are plenty. Most notably, significant direct benefits can be gained by playing financial markets which rise and fall with the weather such as the weather derivatives and catastrophe reinsurance markets; not to mention agricultural and energy commodities (ch 7). Enron pioneered the markets. With foreknowledge of the weather, so many scams could be concocted that it boggles the mind. Weather routinely changes the course of Human history. It determines what we do every day. It determines the outcomes of wars and influences elections. Control of the weather is God-like power. Money and power junkies want it.

Controlling Earth's weather would necessarily require a gigantic scientific effort. Oddly enough, when one looks for a National effort in weather modification, one finds a lot. Specifically, if one looks, one can find a history of weather control programs involving electromagnetic energy and dispersed atmospheric particles; all in a coherent chronological order.

This chapter examines the origins and development of this; the first planetary-level and largest scientific endeavor in Human history. Now is our opportunity to gain a deeper understanding of this new Manhattan Project.

The origins of weather modification

People have been attempting to modify the weather for ever. Most commonly, man has gone about making it rain; especially in times of draught. The earliest recorded efforts were those of mystics. Local shaman would be called upon to ingest a certain concoction in order to communicate with the weather gods and ask for help. In some cases, the sacrifice of certain animals in certain fashions may have been the thing to do. Sometimes a good old rain dance may have done the trick.

Some early Western efforts to stop destructive weather are outlined in professor James Fleming's book "Fixing the Sky." On page 78 he writes, "In ancient Greece, the official 'hail wardens' of Cleonae were appointed at public expense to watch for hail and then signal the farmers to offer blood sacrifices to protect their fields: a lamb, a chicken, or even a poor man drawing blood from his finger was deemed sufficient."

A little later professor Fleming writes, "In Austria, it was traditional to ring 'thunder bells' or blow on huge 'weather horns' while herdsman set up a terrific howl and women rattled chains and beat milk pails to scare away the destructive spirit of the storm."

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Much of the early Western attempts at weather modification involved the detonation of explosive charges in the lower atmosphere. It was hypothesized that atmospheric explosions cause precipitation. There are also many early examples of academically respected men of science discovering rudimentary atmospheric mechanisms.

Early American involvement

Although there has been much international participation, this chapter and this book focus on America's participation in the New Manhattan Project (NMP). Throughout the development of this project, America has been the world's technological leader; especially in the area of military technology. America led the way and developed most of this Project. America continues to lead the Project today. Therefore the early history of weather modification in America is relevant.

James Pollard Espy (1785-1860) also known as 'The Storm King' was the first meteorologist in U.S. government service. Although he never received Federal funding for it, he suggested that forest fires can produce rainfall and that experiments in this area should be carried out. His magnum opus was a book called "The Philosophy of Storms." This book contains a long section entitled "Artificial Rains."

The first Federally funded weather modification field effort took place in Texas in 1891, with funds appropriated by the Congress in the amount of nine thousand dollars through the Department of Agriculture. The experiment involved weather modifier Robert St. George Dyrenforth (1844-1910) attacking the atmosphere with balloons, kites, dynamite, mortars, smoke bombs and fireworks. The results were inconclusive, but you can bet that the atmosphere was absolutely terrified!

From these early efforts until the beginning of the scientific era in 1946, the realm of weather modification was inhabited, for the most part, by a motley collection of pseudo-scientists and con artists similar to Dyrenforth. These people, who referred to themselves as 'rainmakers,' travelled around the country (mostly the West), going where local governments were willing to pay for their services. If a certain region was experiencing a severe draught, people were often desperate for solutions. Just as today's NMP involves the saturation of our atmosphere with toxic chemicals, these rainmakers' activities often involved the mixing and open air release of dangerous chemicals. Some of these efforts were Federally funded. Since the days of Robert Dyrenforth, the Federal money has not stopped flowing.

Many early scientific efforts did actually take place and they included: Dr. Leon Chaffee of Harvard University in 1924 discharging electrified sand from an aircraft, August Veraart in 1930 dumping dry ice from an airplane, and Henry G. Houghton of the Massachusetts Institute of Technology in the 1930s spraying calcium chloride to dissipate ground fog.

Nikola Tesla

In the late 1800's, inventor Nikola Tesla (1856-1943) popularized the practical use of electromagnetic energy. He made sure that our power grid runs on AC rather than Edison's inferior DC. The Supreme Court found that U.S. patent #645,576 "System of Transmission of Electrical Energy" shows that he invented radio; not Marconi. He pioneered radar. He invented autonomous vehicles along with wireless signal and power transmission. We'll have more about autonomous vehicles and wireless power transmission in chapter 4 and we'll have more about



Nikola Tesla

Image source: Wikimedia Commons

Tesla's scientific discoveries, inventions, and patents inspired what are today's ionospheric heaters which use electromagnetic energy to cause atmospheric perturbations from great distances and play a defining role in the New Manhattan Project. Specifically, he pioneered the use of certain types of electromagnetic energy called very-low frequency (VLF) and extremely-low frequency (ELF). These are specific types of energy known to be used in the NMP.

Tesla did a good deal of theorizing about weather control. In his autobiography he wrote about how, as a child, he hypothesized about man's possible ability to control the weather with electrical forces. He wrote:

"The sun raises the water of the oceans and winds drive it to distant regions where it remains in a state of most delicate balance. If it were in our power to upset it when and wherever desired, this might[y] life sustaining stream could be at will controlled. We could irrigate arid deserts, create lakes and rivers, and provide motive power in unlimited amounts. This would be the most efficient way of harnessing the sun to the uses of man. The consummation depended on our ability to develop electric forces of the order of those in nature."

Tesla went on later to actually reproduce lightning bolts and his biographer John O'Neill writes that Tesla intended to use his artificial lightning bolts as a means to produce rain.

The scientific era begins

The scientific era of weather modification began famously in November of 1946 with a trio of scientists from General Electric Laboratories: Irving Langmuir, Vincent Schaefer, and Bernard Vonnegut. Leading the group was the world famous Nobel Peace Prize winning

scientist Irving Langmuir (1881-1957). This trio popularized the fact that, under certain circumstances, dumping substances from airplanes into clouds causes precipitation. The initial experiments of late 1946 used dry ice while experiments conducted in early 1947 pioneered the use of silver iodide. Also invented were silver iodide generation equipment and many other weather related scientific instruments. Much of this trio's work here was done in co-operation with the Office of Naval Research and the Air Force. Although others had previously dumped stuff out of airplanes in attempts to modify the weather, the G.E. scientists practiced a rigorous scientific method previously unseen in the field.

Following the famous scientific weather modification efforts of the G.E. Labs trio, the public's imagination was apparently sparked and, beginning a year later in 1947, a government regulated weather modification industry flourished. To this day, the conventional, government regulated weather modification industry expels silver iodide from airplanes.



Langmuir, Schaefer, & Vonnegut
Image source: General Electric Laboratories

However, as noted in the first chapter, the conventional weather modification industry is distinct from the New Manhattan Project and therefore is not the focus of this chapter or book. The New Manhattan Project employs electromagnetic energy to manipulate dispersed particles while conventional weather modifiers do not. Also, conventional weather modification efforts are conducted on a regional basis while the New Manhattan Project is global.

As we will soon see, not only did the GE Labs trio start the conventional weather modification industry and the scientific era of weather modification, they also kicked off the New Manhattan Project. One of these three went on to lead the Project.

Ten years after the scientific breakthroughs of the G.E. Labs trio, fueled by high level political rhetoric and popular interest, the United States federal government began pouring hundreds of millions of dollars annually into basic atmospheric research. The bulk of the taxpayer money spent on this first large-scale movement into basic atmospheric research is documented in a series of semi-annual reports called the Interdepartmental Committee for Atmospheric Sciences (ICAS) reports. The ICAS reports focused on weather modification.

The ICAS reports published by the Federal Council for Science and Technology reveal that

between 1958 and 1978, in dollars adjusted for 2015, our U.S. government spent roughly \$25 billion dollars on basic atmospheric research. That's just for starters. On the rest of the New Manhattan Project, much more has been spent. In comparison, the total cost of the original Manhattan Project (adjusted for 2015 dollars) was somewhere in the neighborhood of \$30B. What has been spent on the New Manhattan Project dwarfs what was spent on the original.

All this research was performed because if one is to control the weather, one must know how the atmosphere works. Or as geoengineer Dr. Clement J. Todd wrote in 1970, "Our ability to manage precipitation depends upon four factors: (1) understanding the physical processes of the atmosphere, (2) real-time knowledge of the weather we wish to manipulate, (3) devising the optimum treatment material and technique, and (4) delivery of that treatment to the cloud where and when we wish." Achieving these factors was understandably not cheap.

The majority of the vast expanses of literature pertaining to weather modification and the atmospheric sciences is geared towards conventional weather modification. However, both the New Manhattan Project and conventional weather modification are supported by basic atmospheric research. So, buried in this body of literature, one may find glimpses of the New Manhattan Project. Although much of the pertinent literature undoubtedly remains classified, quite a bit of this information is available. The rest of this chapter recounts the available glimpses.

Bernard Vonnegut

One member of the G.E. Labs trio, Bernard Vonnegut (1914-1997) went on to pioneer weather modification research involving the use of artificial electric charges and atmospheric aerosols. His work in this area was performed under government contracts outsourced to a research and development firm called Arthur D. Little Inc.. Irving Langmuir's earlier work provided much of the foundation for Vonnegut's and as Vonnegut went forward with the NMP's standard, Langmuir continued to influence him greatly.



Bernard Vonnegut

image source: Life Magazine

During WWII, before G.E., Vonnegut was employed at the Massachusetts Institute of Technology, Chemical Engineering Department where he worked on smokes for the U.S. government's Chemical Warfare Service. After that, he worked for the Air Force Meteorology Department. He joined G.E. in the Fall of 1945.

The earliest recorded instances of electricity being intentionally used to modify particles in the atmosphere can be found in the 1884 experiments of Sir Oliver Lodge (1851-1940). The 1918 U.S. patent #1,279,823 "Process and Apparatus for Causing Precipitation by Coalescence of Aqueous Particles Contained in the Atmosphere" by J.G. Balsillie built upon Lodge's work. Using this knowledge as a basis, Mr. Vonnegut resumed Lodge's and Balsillie's work; this time with massive funding and modernized scientific equipment.



Space charge experiment

Image source: the Massachusetts Institute of Technology

Beginning in 1953, Bernard Vonnegut, Arthur D. Little et al. conducted experiments involving unsheathed stainless steel wires miles long strung from the tops of telephone poles or between mountain peaks. These wires were connected to a strong DC power supply and thus discharged corona. The coronal discharge's effect upon aerosols (ambient and man-made) and the clouds above was monitored and analyzed. Through 1961, these experiments were carried out in Massachusetts, New Hampshire, Texas, Illinois, and New Mexico. These types of experiments are referred to as 'space charge' experiments. The U.S. Signal Corps and the U. S. Coast Guard provided support. Others performed similar experiments.

As noted in the previous chapter, the 1958 "Final Report of the Advisory Committee on Weather Control" is the most referenced weather modification document. This report contained an article by Bernard Vonnegut, Vincent Schaefer, J. S. Barrows, and Paul MacCready titled "The Future." In it they outline an atmosphere saturated with 'chemicals' and 'altering' atmospheric electrical variables. This is the earliest description of the New Manhattan Project yet found by the author. It reads:

“When the nature of thunderstorm electrification is understood it may prove possible to

control this process by the introduction of chemicals into the atmosphere or by altering electrical variables. Such variables might be atmospheric conductivity, field, and space charge, or perhaps the corona giving properties of the earth's surface."

"When we become sufficiently sophisticated concerning the dynamics of the atmosphere it is possible that weather may be controlled by the large scale release of chemical or more probably thermonuclear heat energy."

If you are wondering... yes, Bernard Vonnegut was related to the novelist Kurt Vonnegut. They were brothers. In fact, Kurt also worked for G.E. as a publicist.

Historical NMP examples

Also in 1958, the aforementioned chief White House advisor on weather modification, Captain Howard T. Orville, said the U.S. defense department was studying, "...ways to manipulate the charges of the earth and sky and so affect the weather..." by using an electronic beam to ionize or de-ionize the atmosphere over a given area.

Again in 1958, Captain Orville wrote a previously noted article about weather modification which appeared in *Popular Science* and suggested that weather might be changed on a global scale by, "Electronic bombardment of the ionosphere to alter its electrical charge."

The Department of Commerce Weather Bureau reported in 1960 that they were conducting a weather modification study in which, "Chemicals are introduced into the cloud which noticeably changes the surface tension of the droplets. Electrification effects are being observed by artificially electrifying the droplets and subjecting them to impressed electric fields."

For better or for worse, this super secret program had a prophet. His name was United States Navy Vice Admiral William Francis Raborn Jr. (1905-1990).

In the January 1963 edition of the *U.S. Naval Institute Proceedings*, Vice Admiral Raborn outlined a program using electromagnetic energy to modify the weather. His article was entitled "New Horizons of Naval Research and Development." In this paper, underneath the heading of 'Environmental Warfare' he wrote:

"The possibilities for the military employment of the 'weather weapon' may be as diverse as they are numerous. An ability to control the weather could introduce greater changes in warfare than those which occurred in 1945 with the explosion of the first nuclear weapons."

"A severe storm or hurricane striking a naval force may well inflict greater damage than could an enemy. The capability to change the direction of destructive storms and guide them toward enemy concentrations may exist in the future arsenal of the naval tactical commander."

"Ground, sea, air and amphibious operations might be supported by the dissipation of fog or clouds, or by the production of rain or drought. Conversely, the creation of solid, low overcasts might be used to conceal troop concentrations, movements, and task force deployments. Large-

scale weather control techniques might be used to cause extensive flooding in strategic areas or even to bring a new 'ice age' upon the enemy. By influencing the ionosphere and atmosphere simultaneously, magnetic, acoustic, and pressure effects might be generated in such a way that ocean-wide sweeping of mines would occur."

"Creating or dissipating atmospheric temperature/humidity ducts might modify the refractive index of the atmosphere enough to influence radar or radio transmission. Artificially-induced ionospheric storms might produce a blackout of communications."

"Certain electromagnetic waves are unable to pass through an area of precipitation. A cloud seeding generator could be employed under appropriate meteorological conditions to produce precipitation that would interfere with the operation of radio-guided or remotely-controlled devices or vehicles. We already have taken our first steps toward developing an environmental warfare capability. We are using satellite weather data from Tiros II for current, tactical operations and more accurate, long-range weather predictions. Some experiments in fog dissipation have shown promise, and some exploratory research has been conducted on ways to change the heading of major storms."

"For these reasons - and because our advances in science make it reasonable - we are now engaged in planning a ten-year, comprehensive study of the atmosphere, a study which we will designate ATMOS. This plan will be co-ordinated with our TENOC oceanographic studies."



Vice Admiral W. F. Raborn Jr.

Image source: United States Navy

About the ATMOS program, the author has failed to find any other significant documentation. The author has looked over a 1961 report pertaining to the Navy TENOC (Ten Year Program in Oceanography) program. Although it did not contain any specific information pertinent to the New Manhattan Project, it did, however, make mention of another, classified TENOC report.

The United States Navy, of which Mr. Raborn was a vice admiral, is today one of the

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managers of the HAARP facility in Alaska. The HAARP facility contains the world's most powerful ionospheric heater which is documented to be able to modify the weather. See chapter 3.

In late 1965, Vice Admiral Raborn was the head of the Central Intelligence Agency (CIA). Earlier in that year, the LBJ white house produced the aforementioned first high-level document to assert both the theory of man-made climate change and the SRM geoengineering theses. We'll have more about that in chapter 10. Further still, in 1970 Mr. Raborn became a member of the board of directors of a company called LTV Electrosystems. He also served as a consultant. The 'L' in LTV Electrosystems stood for Ling: James Ling. James Ling, in the days before he ran big businesses, served as a navy electrician. In 1972 LTV Electrosystems' parent corporation Ling-Temco-Vought sold the company and it became E-Systems. Admiral Raborn stayed on the board of directors throughout. In the 1990s, E-Systems built the first version of HAARP. It appears that Vice Admiral Raborn's 'horizons' have been met.

In 1966, the Interdepartmental Committee for Atmospheric Sciences Select Panel on Weather Modification produced a document titled "Present and Future Plans of Federal Agencies in Weather-Climate Modification." On page 17 of this report, it reads:

"It is anticipated that there will be a few large-scale facilities funded for the testing of modification schemes. Typical schemes might be the suspension of a spray nozzle over a valley between two mountain peaks to produce cloud-sized droplets into which electrical charges can be introduced in either polarity, contaminants can be introduced, and the drop size spectrum can be adjusted to any reasonable distribution."

The Interdepartmental Committee on Atmospheric Sciences subsequently agreed to proceed with the development of a National Weather Modification Program along the lines of this report.

The now defunct Interdepartmental Committee for Atmospheric Sciences (ICAS) was created by the Federal Council for Science and Technology in 1958 in order to oversee and coordinate a wide range of basic atmospheric research originating from many previously disparate government offices. Their focus was weather modification. Reporting members of the ICAS included: the departments of Agriculture, Commerce, Defense, Interior, Transportation, and State as well as the Environmental Protection Agency, the Energy Research and Development Administration, the National Aeronautics and Space Administration, and the National Science Foundation. These government agencies have been involved in weather modification all along.

As previously mentioned, the ICAS produced a series of semi-annual reports between 1958 and 1978. In these reports, ICAS member organizations' weather related scientific activities and expenditures were recounted. The ICAS reports' areas of study included: Earth's natural geomagnetic energy, different ways clouds form and different ways they precipitate, lightning, hurricanes and other extreme weather, inadvertent weather modification, intentional weather modification, and extra-planetary atmospheres. The ICAS is duly noted here because so much of the history of the New Manhattan Project is accounted for in the pages of their reports.

In the 1969 ICAS report, under the heading of 'Cloud Electricity Modification,' it is written

that the National Science Foundation is developing, "Means for injecting significant quantities of charge artificially into clouds..."

Again in this 1969 report, on page 37 it describes the Army's intentions in the area of weather modification. It reads, "Studies will continue on upper atmospheric structure and dynamics, lasers and other electromagnetic propagation, and acoustic propagation. New approaches to atmospheric modification will be studied."

On page 42 of the 1971 ICAS special report "A National Program for Accelerating Progress in Weather Modification," the authors write of fog being cleared by airplanes releasing chemicals and 'electrical methods' of fog dissipation.

Throughout the ICAS reports, the electrical and electromagnetic manipulation of the atmosphere is mentioned so many times that to cite every example here would be quite tedious.

For the 1972 Third Conference on Weather Modification hosted by the American Meteorological Society, a paper was submitted by a Paul L. Smith, Jr. of the South Dakota School of Mines and Technology. In this paper, Mr. Smith writes of a wire under the influence of high-voltage DC current discharging corona, such as those used for space charge experiments. He proposes that such a wire could be used in combination with an airplane to modify the weather, stating, "...one possible method for seeding clouds electrically is to carry the charging device through a cloud on an airplane, leaving behind a wake of charged cloud droplets."

The 1987 U.S. patent #4,686,605 "Method and Apparatus for Altering a Region in the Earth's Atmosphere, Ionosphere and/or Magnetosphere" shows how stratospheric and tropospheric aerosols can be manipulated using electromagnetic energy in order to modify the weather. The ground-based antennas (known as ionospheric heaters) needed to produce the appropriate electromagnetic energy exist. We will have a detailed analysis in chapter 3.

The 1991 U.S. patent #5,003,186 "Stratospheric Welsbach Seeding for Reduction of Global Warming" talks about the dispersion of aluminum oxide as a way to modify the weather. For more, see chapter 5.

In 1996, our Air Force produced the previously mentioned document called "Weather as a Force Multiplier: Owning the Weather in 2025." The document was produced by the Department of Defense and written as ordered by the chief of staff of the Air Force, Ronald R. Fogleman. "Owning the Weather" was but one in a series of 39 documents speaking to a great overhaul of Air Force operations to be achieved by the year 2025. The larger set of documents

is called *Air Force 2025*. "Owning the Weather" describes a system of weather modification combining atmospheric aerosols with electromagnetic energy.

On page 2 the document reads:

"Prior to the attack, which is coordinated with forecasted weather conditions, the UAVs begin cloud generation and seeding operations. UAVs [unmanned aerial vehicles] disperse a cirrus shield to deny enemy visual and infrared (IR) surveillance. Simultaneously, microwave heaters create localized scintillation to disrupt active sensing via synthetic aperture radar (SAR) systems such as the commercially available Canadian search and rescue satellite-aided tracking (SARSAT) that will be widely available in 2025. Other cloud seeding operations cause a developing thunderstorm to intensify over the target, severely limiting the enemy's capability to defend. The WFSE monitors the entire operation in real-time and notes the successful completion of another very important but routine weather-modification mission."

The document mostly speaks to military combat applications, but there are some very interesting quotes. Here's one, "In the United States, weather-modification will likely become a part of national security policy with both domestic and international applications." Let's hear more about those 'domestic applications.'

On page 34 the document reads, "The ability to modify the weather may be desirable both for economic and defense reasons." The economic and military motives of weather modification are detailed in chapter 7.

Also in 1996, as part of the same series containing "Owning the Weather," the Air Force produced a document entitled "An Operational Analysis for Air Force 2025" which briefly outlines something they call a, "...weather analysis and modification system." This system is described as employing both particulate seeding and microwave energy.

Under the heading of "Weather Analysis and Modification System," "An Operational Analysis for Air Force 2025" reads:

"A global network of sensors provides 'weather warriors' with the means to monitor and accurately predict weather activities and their effects on military operations. A diverse set of weather modification tools allows manipulation of small-to-medium scale weather phenomena to enhance friendly force capabilities and degrade those of the adversary."

In the mid-nineties, Lawrence Livermore National Laboratories scientists Edward Teller, Lowell Wood and Roderick Hyde wrote multiple papers calling for small aluminum particles to be 'injected' into our atmosphere in order to 'scatter' sunlight. They say this will save us from global warming. As previously noted many times here, aluminum is the number one chemtrail ingredient. For further discussion, see chapter 5.

The National Aeronautics and Space Administration (NASA) released a document in 2007 titled "Workshop Report on Managing Solar Radiation." This document advocates SRM geoengineering and states:

"Alternatives to dielectrics have been suggested, such as metallic or resonant particles (see, for example, Teller, 1997). Metals interact with electromagnetic radiation strongly and might conceivably require much less particle mass than would non-conducting (dielectric) particles."

A little later, it concludes:

"Several options exist or are conceivable for deploying the radiation reflecting materials into the stratosphere. These include naval artillery, high-altitude transport aircraft, and unpiloted vehicles."

Conclusions

So there you have an evolutionary history of weather control projects employing atmospheric particles and atmospheric electrification. Is this a coincidence? Are all these examples simply isolated, one-off events not a part of a larger overall plan? What are the odds of these data points evolving in a chronological order such as they have without being part of a coordinated effort? One may be looking at something like a quadrillion to one; and that is conservative.

What we have now is an historical outline of the New Manhattan Project. As we continue our investigation, we will see that the details of the NMP seamlessly fill-in the blank spaces defined here. Specifically, the next four chapters will separately analyze each element of this project. Those four elements are: electromagnetic energy, aircraft, chemtrail spray, and command and control.

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Chapter 3

IONOSPHERIC HEATERS / HAARP

A main aspect and distinguishing feature of the New Manhattan Project is its use of electromagnetic energy; energy supplied by Earth-based antennas called 'ionospheric heaters.'

An expert in the field tells the author that electromagnetic energy is, "...the fabric of space and time." Observed by many, first proven by Heinrich Hertz and later popularized by Nikola Tesla, electromagnetic energy is ubiquitous in our society and environment. We make wireless telephone calls with it. Microwave ovens popularized by Raytheon cook our food with it. The Earth (and the universe for that matter) produces incredibly massive amounts of it naturally.

Scientists figured out a long time ago how to use electromagnetic energy to modify the weather. Although people running the programs don't admit that it is being used, or even *can* be used for such a purpose, it is well established.

The world's most powerful and versatile ionospheric heater is something commonly known as HAARP.

HAARP

Located on an United States Air Force site near Gakona, Alaska, the High-frequency Active Auroral Research Project (HAARP) is the world's largest and most functional ionospheric heater and affords us our best view into this field of technology. Construction began in 1993. Today, HAARP can generate super high-powered beams of directed electromagnetic energy. HAARP is designed to shoot these energy beams hundreds of kilometers (the distance varies depending upon the operation) up into the sky; affecting an area known as Earth's ionosphere. In doing this, HAARP can perform a number of functions.



The High-frequency Active Auroral Research Project

Image source: Wikimedia Commons

The known uses of HAARP are: weather modification, power beaming, earth tomography (mapping of our planet's interior), Star Wars-type defense capabilities, enhanced

communications, communication disruptions, and mind control. For an in-depth discussion about what HAARP does and how it does it, you must read the 1995 book "Angels Don't Play this HAARP" by Dr. Nick Begich and journalist Jeane Manning.

Although lesser ionospheric heaters do not generate energy beams as powerful or possess the same functionality as HAARP, similar facilities are located around the world. We don't know the power of HAARP. Since the military took it over, that information has been classified. Due to similar operations being conducted, we can safely assume that the EISCAT facility at Tromso, Norway is similarly as powerful. Other large ionospheric heater locations include: Puerto Rico, Russia, Tajikistan, Peru and the Middle East.



Global ionospheric heaters

Image source: unknown

The HAARP website explains the differences between HAARP and other ionospheric heaters like this: "HAARP is unique to most existing facilities due to the combination of a research tool which provides electronic beam steering, wide frequency coverage and high effective radiated power collocated with a diverse suite of scientific observational instruments."

HAARP can be remotely operated. In order to increase functionality and effectiveness, ionospheric heaters can be used in combination. HAARP and all other ionospheric heaters employ technology originally envisioned and demonstrated by American inventor Nikola Tesla.

HAARP is jointly managed by the U.S. Air Force, the U.S. Navy, and the Defense Advanced Research Projects Agency (DARPA) in conjunction with the Geophysical Institute of the University of Alaska, Fairbanks. Here's more from the HAARP website:

"Technical expertise and procurement services as required for the management, administration and evaluation of the program are being provided cooperatively by the Air Force (Air Force Research Laboratory), the Navy (Office of Naval Research and Naval Research Laboratory), and the Defense Advanced Research Projects Agency. Since the HAARP facility consists of many individual items of scientific equipment, both large and small, there is a considerable list of commercial, academic and government organizations which are contributing to the building of the facility by developing scientific diagnostic instrumentation and by providing guidance in the specification, design and development of the IRI [HAARP]. BAE Advanced Technologies (BAEAT) is the prime contractor for the design and construction of the IRI. Other organizations which have contributed to the program include the University of Alaska, Stanford University, Cornell University, University of Massachusetts, UCLA, MIT,

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Dartmouth University, Clemson University, Penn State University, University of Tulsa, University of Maryland, SRI International, Northwest Research Associates, Inc., and Geospace, Inc."

12 U.S. patents are commonly recognized as applicable. These are known as 'the HAARP patents.' A man named Dr. Bernard Eastlund (1938-2007) is listed as the inventor on two of these patents and a co-inventor on another. Dr. Eastlund got his Bachelor's degree in physics from the Massachusetts Institute of Technology and based his work heavily upon Nikola Tesla's. Eastlund was the inventor of HAARP.

The 12 HAARP patents were all assigned to ARCO Power Technologies Incorporated (APTI); a subsidiary of Atlantic Richfield Company (ARCO). APTI also won the initial contract to build HAARP. In 1994, APTI was sold to a previously mentioned company called E-Systems. E-Systems then changed APTI's name to Advanced Power Technologies Incorporated. Largely involved in communications and information systems, E-Systems got most of its business from and had extensive ties to the National Security Agency and the Central Intelligence Agency. In 1995, Raytheon acquired E-Systems. Raytheon, the defense contracting behemoth, now holds all 12 HAARP patents.

Weather modification

HAARP and ionospheric heaters like it can modify the weather. Bernard Eastlund made no secret of it. Let us reference a passage from Nick Begich and Jeane Manning's book "Angels Don't Play this HAARP:"

"Eastlund's enthusiasm for planetary-scale engineering came through just as clearly in an interview with Omni Magazine. While acknowledging that many of the uses of his invention are warlike, he also talked about 'more benign' uses. His view of benign included using the technology to reroute the high-altitude jet stream, which is a major player in shaping global weather. Another way to control the weather with his technology would be to build 'plumes of atmospheric particles to act as a lens or focusing device' for sunlight, he told Omni. With this, the people controlling the antennae could aim in such a way that the return beams would hit a certain part of the earth. With the heating ability, they could experiment until they could control wind patterns in a specific place."

"The Omni article explained. 'What this means, he says, is that by controlling local weather patterns one could, say, bring rain to Ethiopia or alter the summer storm pattern in the Caribbean.'"

In 1998, a paper written by Dr. Eastlund titled "Systems Considerations of Weather Modification Experiments Using High Power Electromagnetic Radiation" was published. Eastlund wrote:

"In the mid-1980's, antennas producing up to 10_{12} watts using natural gas on the North Slope of Alaska were studied by ARCO and the U.S. Department of Defense for military applications in the ionosphere. Because of the similarity between the proposed antenna power and the energy turnover of some typical storm systems, applications for weather modification in the

The document continues with technical details as to how this weather modification, employing the use of satellites and computerized atmospheric models, is achieved. As we can see from this passage, natural gas from Alaska's North Slope oil and gas reserves serves as the fuel that runs HAARP. The original owner of the HAARP patents, APTI was a subsidiary of the owner of trillions of cubic feet of North Slope natural gas, Atlantic Richfield (ARCO).

United States patent #4,712,155 "Method and Apparatus for Creating an Artificial Electron Cyclotron Heating Region of Plasma" is one of the aforementioned 12 HAARP patents and states multiple times that HAARP can be used for weather control. Dr. Eastlund is noted as the inventor. The patent states:

"Since there is evidence that wind currents in the stratosphere appear to be linked to certain weather patterns on earth, such winds can be produced with the present invention at selected locations and altitudes which can be used in establishing such weather patterns."

Eastlund wrote much more about the ability of ionospheric heaters to modify the weather. It is well established that this is possible.

Ionospheric heaters and chemtrails

United States patent #4,686,605 "Method and Apparatus for Altering a Region in the Earth's Atmosphere, Ionosphere and/or Magnetosphere" is one of the 12 HAARP patents and provides evidence not only for a link between HAARP and weather control, but also a link between HAARP and chemtrails. Dr. Eastlund is credited as the inventor. It states, "Weather modification is possible by, for example, altering upper atmosphere wind patterns or altering solar absorption patterns by constructing one or more plumes of atmospheric particles which will act as a lens or focusing device."

That quote on the surface looks like a connection between HAARP and chemtrails but, before we think we have the smoking gun, realize that they were talking there about particles precipitated from the ionosphere forming a lens without the need of chemtrails; as outlined elsewhere in the patent. The good news is, the patent goes on:

"Also as alluded to earlier, molecular modifications of the atmosphere can take place so that positive environmental effects can be achieved. Besides actually changing the molecular composition of an atmospheric region, a particular molecule or molecules can be chosen for increased presence. For example, ozone, nitrogen, etc. concentrations in the atmosphere could be artificially increased. Similarly, environmental enhancement could be achieved by causing the breakup of various chemical entities such as carbon dioxide, carbon monoxide, nitrous oxides, and the like. Transportation of entities can also be realized when advantage is taken of the drag effects caused by regions of the atmosphere moving up along diverging field lines. Small micron sized particles can be then transported, and, under certain circumstances and with the availability of sufficient energy, larger particles or objects could be similarly affected."

That, my friends, is a smoking gun. They are talking about introducing small particles into

the atmosphere and then using HAARP to move them and the matter around them for the purpose of weather modification.

Not only can the small chemtrail particles be manipulated, but chemtrails may also enhance the electrical connection between the lower and upper atmosphere. Although chemtrails are not sprayed as high up as the ionosphere, the electrical and pressure effects caused by ionospheric heaters such as HAARP can strongly influence chemtrail laden skies below. A strong physical connection between the ionosphere, stratosphere, and troposphere below is well documented in the atmospheric sciences and weather modification literature.

Let us refer to "Angels Don't Play this HAARP:"

"...there is a super-powerful electrical connection between the ionosphere and the part of the atmosphere where our weather comes onstage, the lower atmosphere. Furthermore, scientific theories describe how the electrical energetic levels of the atmosphere are connected to cloud processes."

Ionospheric heaters such as HAARP are most probably being used in conjunction with chemtrails to modify today's weather. Dispersed metallic particles such as aluminum, barium, and strontium (the main chemtrail ingredients) can be manipulated by electromagnetic energies generated by ionospheric heaters. These dispersed particles also increase the atmosphere's conductivity and therefore may enhance HAARP's weather modification performance.

A history of HAARP

In 1958 a scientist named Nicholas Christofilos inspired a project which, over time, was called (in chronological order): Bassoon, Shelf, Sanguine, Seafarer, & ELF. It involved a system of buried and above ground wires laid over vast portions of Wisconsin and Michigan. What has been declassified about these projects says that it was all about naval communications with distant, submerged submarines. But from the HAARP documents, we know that antennas which produce ELF and similar waves can do a whole lot more than produce common communication signals. Specifically, we have seen that these types of antennas can be used for weather control. Project Bassoon/Shelf/Sanguine/Seafarer/ELF (Project B/S/S/S/ELF) operations continued through to 2004 and some of the operations remain classified. We will have more about Project B/S/S/S/ELF in chapter 9.

This author has yet to make a documentary connection between Raytheon and Project B/S/S/S/ELF. But, considering their acquisition of a company called SubSig and their later dominance of these technologies produced for the navy, it makes sense that they would be involved.

Five years after the commencement of Project B/S/S/S/ELF, the aforementioned (ch 2) navy vice admiral by the name of William Francis Raborn was writing about his 'new horizons.' Vice Admiral Raborn probably got involved in these types of technologies because in the mid to late 1950's Raborn was in charge of Submarine Launched Ballistic Missile (SLBM) programs. Just like Project B/S/S/S/ELF, these programs involved submarines. Hence, during this period, he probably became aware of the cutting edge communications and probable weather control experiments going on in Project B/S/S/S/ELF.

More evidence for the assertion that Raytheon was involved in Project B/S/S/S/ELF lies in

the fact that, as previously noted, Vice Admiral Raborn was on the board of directors of the company that built HAARP and was eventually acquired by Raytheon. Raytheon also produced the guidance system for Raborn's Polaris SLBM.

The earliest known ionospheric heater was located in Pennsylvania. Rosalie Bertell, PhD writes:

"As early as 1966 researchers at Pennsylvania State University built and operated an ionospheric heater, using electromagnetic energy to stimulate or heat the bottom of the ionosphere. Because the device caused problems for pilots, it was removed to a more remote location, Platteville, Colorado. By 1974, similar research facilities were located at Arecibo, Puerto Rico, and in Armidale, New South Wales, Australia."

This first known ionospheric heater was later moved to Poker Flat, Alaska where it continued to be operated by Pennsylvania State University and Dr. Anthony Ferraro under the U.S. Navy.

The powerful ionospheric heater at Arecibo, Puerto Rico mentioned above is especially significant because Puerto Rico is an American territory and Arecibo is an American owned and operated facility. The Defense Advanced Research Projects Agency (DARPA), Stanford Research International, and the National Science Foundation (among many others) have all been very active there. The Caribbean location of the Arecibo ionospheric heater compliments the geographic location of the HAARP facility well in that their respective locations provide excellent coverage of the contiguous United States from Washington to Florida.

My science advisor says that the previously noted ATMOS program mentioned by Vice Admiral Raborn was continued at Two Rivers, near Fairbanks, Alaska at the University of California at Los Angeles HIPAS observatory. HIPAS stands for High Power Auroral Stimulation. Construction of the HIPAS facility began in 1980 and was completed in 1986. Primary funding for the original construction was provided by the Office of Naval Research. The National Oceanic and Atmospheric Administration (NOAA) and Lawrence Livermore National Labs (LLNL) were involved as well. The HIPAS facility covered 120 acres. A UCLA professor by the name of Alfred Wong was the founder and director of HIPAS. Following construction in the late 1980s, HIPAS was one of the two most powerful such facilities in the world. HIPAS is said to have shut down in 2007.

The first version of HAARP was completed in 1995. Over the years, there have been many upgrades. A major HAARP upgrade was completed in 2007 making it into today's behemoth.

HAARP 2.0

It is reported that smaller, mobile versions of HAARP exist. Let us refer again to "Angels Don't Play this HAARP:"

"Is it possible that the HAARP scientists could have miniaturized the technology so that they don't need such a large area of land and electrical power as called for in Eastlund's patents?" Manning asked him."

"It's entirely possible," he [Eastlund] replied. "They have had a lot of good engineers working on it for some time. I would hope they have improved it."

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There may be many HAAARP-like facilities of which we are not aware. There may be ionospheric heaters all around us.

In 2005, scientists at the University of California Los Angeles and the High Power Auroral Stimulation (HIPAS) Observatory in Alaska reported a new generation of ionospheric heaters. This technology, known as 'Hertzian antennas,' can, "...match or exceed the peak power of the new HAARP system for a fraction of its cost." Though most implementations are not capable of producing all of the complex, phased signals produced by facilities like HAARP or the antenna array at Jicamarca, Peru. Named after the man who first proved electromagnetic energy, an effective Hertzian antenna can fit in a big back yard.

Have these new Hertzian antennas been placed strategically around the country and the world in a coordinated effort to modify the weather? As noted earlier, ionospheric heaters such as these can be networked and synchronized to increase functionality and effectiveness. Today's chemtrail/ionospheric heater weather modification operations may involve a network of smaller Hertzian antennas tucked away on the back lots of our nation's scientific establishments and/or placed (as discussed next) at common weather shear locations, disguised as center-pivot irrigation systems. All these antennas could be controlled from a central location.

Maybe HAARP scientists are telling the truth about something. This proposed scenario jibes with what the scientists at the HAARP facility are saying. They say that the HAARP ionospheric heater antenna array goes largely unused. If a network of smaller antennas across the country is handling the day-to-day dirty work, then the HAARP array may only be used occasionally or not at all.

This image was captured from Google Earth:



Possible underground antenna
Image source: Google Earth

This, at first glance, appears to be a circle formed by a center pivot irrigation system. Such circles appear all over the country as this method of irrigation is common. But, as one can see, the edges of the circle are irregular and there appear to be diamond shaped structures under the soil. What accounts for these irregularities?

My science advisor, who is an expert in the field of electromagnetic energy, tells me that this may be a VLF antenna buried in the ground. Although she says this particular one is aiming

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inward rather than upward, a VLF antenna such as this can produce the electromagnetic energy needed to modify the weather as part of the New Manhattan Project. There may be hundreds of such antennas buried in a similar fashion across the country. My science advisor tells me that she has been finding these things on mountain tops as well.

The March, 1971 Interdepartmental Committee for Atmospheric Sciences (ICAS) report makes mention of our navy developing 'sub-surface transducers.' The aforementioned Project B/S/S/S/ELF employed sub-surface electromagnetic energy producing wires.

In 1973, the United States Navy produced a document titled "Project Sanguine: Michigan site." This document details a planned program involving antennas emitting extremely low frequency (ELF) electromagnetic energy buried under the ground. The electromagnetic energy produced in this fashion was intended to be one-way transmissions to submerged submarines thousands of miles away. This was a proven technology. The system was designed to be able to survive a nuclear holocaust.

U.S. patent #4,839,661 "Guided Wave Antenna System and Method" describes how ionospheric heater-like antennae may be buried about a meter deep and still remain highly functional.

Maybe it's time we get out there with electromagnetic energy detectors and find out what this thing is. The coordinates for the above image are 32 08'26.07" N 84 58'55.10" W. You can plug those coordinates into Google Earth. Those coordinates translate to a field alongside Highway 39 near Fort Benning, Georgia. the circle appears to be a little less than one mile in diameter.

A pattern of deception

When it comes to HAARP, our shadow government has shown a pattern of denial, obfuscation and outright lies. Burying infrastructure to cover up a weather modification project would be consistent behavior. In many instances, the HAARP website and the military contradict each other and/or the authors of "Angels Don't Play this HAARP."

The HAARP website claims that HAARP is not used for weather modification and the military has never admitted to these capabilities. The patents, the inventor of HAARP, Nick Begich, Jeane Manning, the European Parliament, and *their own documents* say HAARP *can* modify the weather.

Although the HAARP website claims experiments are only being carried out in a relatively small portion of the ionosphere directly over the facility, the HAARP executive summary says, "For broader military applications, the potential for significantly altering regions of the ionosphere at relatively great distances (1000 km or more) from a heater is very desirable."

The HAARP website claims that HAARP does not make holes in the ionosphere. The European parliament and the authors of "Angels Don't Play this HAARP" say it does.

The HAARP website and the military deny that HAARP is a 'Star Wars' defense type weapon. The European parliament and the authors of "Angels Don't Play this HAARP" insist it is; the patents support their position. 'Angels' says:

"In February, 1995, the Star Wars missile defense shield was supposed to be dead. The United States House of Representatives by a 218 to 212 voted to kill the program. Yet HAARP continues on while the motives of the military are hidden from the world."

The military and the HAARP website both claim that HAARP is not a classified project, but leaked documents show that the military planners intend to keep the program under wraps.

The HAARP website contradicts itself about military involvement. In their self-description, they say they are a military project, but in the FAQs, they say HAARP is, "...not designed to be an operational system for military purposes." All this while the military's executive summary says HAARP is used to 'exploit' ionospheric processes for Department of Defense purposes.

Dr. Eastlund has contradicted the official military position many times. Even though they have been exhaustively proven, our military denies connections between Eastlund, APTI, and HAARP. Eastlund himself said in a 1988 NPR interview that the military had tested some of the ideas presented in the patents. According to Dr. Begich and Jeane Manning:

"Eastlund said in a 1988 radio interview that the defense department had done a lot of work on his concepts, but he was not at liberty to give details. He later told Manning that after he had worked within ARCO for a year and applied for patents, Defense Advanced Research Project agency (DARPA) had combed through his theories then gave out a contract for him to study how to generate the relativistic (light speed) electrons in the ionosphere."

Here's more about Eastlund from 'Angels:'

"Eastlund told Chadwick of National Public Radio that the patent should have been kept under government secrecy. He said he had been unhappy that it was issued publicly, but, as he understood it, the patent office does not keep basic 'fundamental information' secret. 'You don't get a patent if you don't describe in enough detail to another person how to use it,' he said. Specifics of military applications of his patent remain proprietary (secret), he added."

Even the technocratic European parliament found serious concerns about HAARP. A 1999 European parliament committee report, after hearing Dr. Nick Begich and others, concluded:

"[the Committee on the Environment, Public Health and Consumer Protection] Regards the US military ionospheric manipulation system, HAARP, based in Alaska, which is only a part of the development and deployment of electromagnetic weaponry for both external and internal security use, as an example of the most serious emerging military threat to the global environment and human health, as it seeks to interfere with the highly sensitive and energetic section of the biosphere for military purposes, while all of its consequences are not clear, and calls on the Commission, Council and the Member States to press the US Government, Russia and any other state involved in such activities to cease them, leading to a global convention against such weaponry;"

HAARP may be remotely operated from Lawrence Livermore National Laboratory, Los Alamos National Laboratory and/or Wright-Patterson Air Force Base. These three locations have produced much of the leading research and development. HAARP is an incredibly high-tech machine. One needs highly skilled scientists and engineers to run it. The best place to run HAARP would be from a laboratory where the technology was developed. Most people (top

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scientists included) are generally not so hot about relocating to the wilds of Alaska. There may be other command centers capable of controlling HAARP as well. We'll have more about command and control centers in chapter 6.

We know ionospheric heaters such as HAARP can modify the weather. If one could, don't you think they would? Weather control is god-like power. Chemtrails are probably sprayed to enhance the effectiveness of these operations. If this is the case, our Government's pattern of lying and obfuscation about HAARP makes perfect sense and is consistent with behavior exhibited by people associated with every aspect of chemtrails, geoengineering, and the related activities outlined here.

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Chapter 4

THE CHEMTRAIL FLEET

Today's chemtrail spraying operations necessarily require a massive fleet of specialized jumbo jet airliners operating covertly. The volume and frequency of chemtrail reports from all over the world, the author's own observations and the massive task of controlling Earth's weather in the fashion of the New Manhattan Project suggest that these planes number in the hundreds.

These planes must necessarily be of a certain breed. Any old plane rigged up with some spraying equipment or even with spiked jet fuel simply will not do. For example, a commercial passenger airliner following a predetermined route is not an effective chemtrail spraying plane. The chemtrail spray needs to be emitted at specific locations at a moment's notice. The super high-tech nature and payload requirements of the New Manhattan Project also demand specialization. The fuselage of an effective chemtrail spraying aircraft needs to be loaded up not with passengers and luggage, but with chemtrail spray, spraying equipment, communications gear, computers and atmospheric monitoring equipment. An effective chemtrail spraying plane is a dedicated chemtrail spraying plane.

Not only does the New Manhattan Project require hundreds of dedicated airplanes, the project requires that these airplanes operate covertly. Even though there is a mountain of evidence proving the existence of this project, our federal government refuses to admit the obvious. Just like the original Manhattan Project was, this project is still officially a big secret. Only this time, it's going on in the sky above us.

As we are interested in exposing chemtrails, we are interested in the origins, development, and current state of this large, covert, high-tech jumbo jet air force routinely contaminating our environment and damaging our health. Not surprisingly, when one looks back in history for large fleets of covertly operating American aircraft, one finds plenty. It all began in 1940s China.

The Flying Tigers

Many of us have heard of or seen the 1942 war epic starring John Wayne called "Flying Tigers." It is a finely crafted propaganda piece based on the real Flying Tigers.



Claire Chennault

Image source: Wikimedia Commons

The real Flying Tigers were an officially sanctioned mercenary air force consisting of former U.S. military personnel fighting for Chiang Kai-shek's Chinese military against imperial Japan in 1941 and 1942. Although they did not operate beyond the purview of your average American (in fact, the media coverage was quite impressive), the Flying Tigers were the beginnings of what became today's top secret New Manhattan Project chemtrail fleet.

The Flying Tigers were co-founded by a man named Claire Chennault (1893-1958) and another by the name of William D. Pawley (1896-1977). Chennault was the military aviation commander and Pawley was the adventurous entrepreneur. In "Flying Tigers" the film, Commander Chennault is played by John Wayne.

Mr. Pawley set up a company called the Central Aircraft Manufacturing Company (CAMCO) which supplied Curtiss-Wright aircraft to the Flying Tigers. Pawley's operations in China were supported by Chiang Kai-shek's Chinese government and an ad hoc political lobby in Washington D.C. doing business through a firm called the Universal Trading Corporation. This ad hoc lobby consisted of men such as: Whitey Willauer, Bill Youngman, Lauchlin Currie, Joseph Alsop, Quinn Shaughnessy, and brothers David and Thomas Corcoran.

In his 2012 biography of William Pawley, author Anthony Carrozza gives us a detailed look at the aforementioned Universal Trading Company and an associated business known as China Defense Supplies, Inc.. Carrozza writes:

"The Universal Trading Corporation was indeed a good setup. Headquartered at Rockefeller Center in New York City (the location of Intercontinent's office), Universal was manned by former U.S. government employees, and its sole purpose appeared to be China's go-between purchasing agent for war materials from the United States and other countries. The corporation had handled the transactions of repaying the \$25 million U.S. loan in 1939, with exports of metals and minerals, and using the funds to purchase war supplies even though Universal was forbidden to do so by the China Trade Act."

"When the United States began a more aggressive program of military aid to China, China

Defense Supplies, Inc. (CDS) - a new private corporation chartered in Delaware - was entrusted with the funds being advanced. Organized by [T.V.] Soong at the request of Madame Chiang, CDS set up its offices at 1601 V Street, Northwest, in Washington, D.C.. As China's appointed purchasing agent and its sole client, CDS attracted a roster of officers that included the cream of the Washington elite. Tommy 'the Cork' Corcoran served as legal counsel and his brother David was installed as president. David served as the manager for General Motors Corporation in Tokyo but resigned after Japan invaded Manchuria in 1931. In 1941, David, along with Nelson Rockefeller, formed the Sydney Ross Company, a subsidiary of Sterling Drugs that supplied CDS with medical drugs throughout the war, and later, quinine, caffeine, and drugs to South America. Frederic A. Delano, FDR's uncle, was named a director of CDS; William Brennan was its congressional liaison; and Whiting Willauer, a reserve officer in naval intelligence (and Chennault's future partner in the postwar Civil Air Transport, which evolved into Air America) was the corporate secretary. Others serving CDS included Gordon Tweedy, William Youngman from the Federal Power Commission who acted as general counsel and a go-between for Chiang Kai-shek, and Quinn Shaughnessy, a Harvard lawyer and Marine Corps intelligence officer who had worked for the Reconstruction Finance Corporation's legal division."

Of course, all this was totally illegal. It violated the Neutrality Act. But on April 15, 1941, President Roosevelt signed a secret, unlisted executive order which authorized a private corporation holding a contract with a foreign government to hire U.S. military officers. That's how the old boy network does it.

Civil Air Transport

In 1942, the Flying Tigers were disbanded and integrated into the U.S. Army Air Force when the United States armed forces officially entered the ongoing China/Japan conflict in support of Chiang Kai-shek's China. After the dropping of the atomic bombs and the subsequent Japanese surrender in 1945, the U.S. military pulled out. Commander Chennault stayed and the aforementioned ad hoc lobby in Washington D.C. formed something called Civil Air Transport (CAT). This new airline was funded through something called the American Airdale Corporation.

Let us reference a passage from "Flying Tigers: Claire Chennault and his American Volunteers" by the leading historian on the Flying Tigers, Daniel Ford. Mr. Ford writes:

"After the war, Chennault continued in the service of the Chiangs, organizing Civil Air Transport with Whitey Willauer and others of the AVG [American Volunteers Group] 'Washington Squadron.' CAT started with mercy flights and evolved into a paramilitary force during the civil war that ended with Chiang Kai-shek's ouster by the Communists in 1949."

Christopher Robbins describes the founding of Civil Air Transport this way:

"Chennault returned to China to found an airline in which he undertook to move the desperately needed relief supplies that had been sent out by the United Nations Relief and Rehabilitation Administration - UNRRA - but which were accumulating on docksides and in

warehouses along the coast instead of being delivered to the interior. In return for flying supplies into the country, the airline was given permission to fly commercial goods out."

Civil Air Transport has been linked to drug dealing. The book "Prelude to Terror: the Rogue CIA and the Legacy of America's Private Intelligence Network" by Joseph J. Trento describes how CAT ferried drugs from the Golden Triangle in Asia. There is plenty of other evidence.

Believe it or not, CAT performed weather modification operations. This is the author's thesis. Christopher Robbins (who is introduced in the next section) writes:

"...during a severe drought in Japan, CAT was chartered to carry a group of rainmakers over Osaka in an effort to sow the clouds with silver iodide. A fine sprinkle of rain fell over the countryside as a result, but the skeptical farmers were more inclined to credit nature than CAT for the phenomenon. On the next trip, the pilot took the precaution of mixing a little emerald-colored dye with the other chemicals. Startled Japanese were treated to a chlorophyll cloudburst and CAT collected wherever it rained green."

After the death of Lieutenant General Chennault in 1958, Civil Air Transport turned into the CIA's Air America. Let us again reference a passage from "Flying Tigers." Daniel Ford writes:

"With the Old Man [Chennault] gone, his airline was reorganized as Air America under the control of the Central Intelligence Agency. Its grey planes, civil and military, with no national markings, carried out CIA missions all during the Vietnam War. Thus the covert air action proposed by Chennault in 1940 finally became an accepted instrument of American foreign policy."

Air America and the Pacific Corporation

Have you heard of the 1990 box office flop called "Air America?" It is a terrible movie starring Mel Gibson and Robert Downey Jr.. Don't watch "Air America" the movie. It will reveal to you nothing and serves as a distraction. It is only mentioned here because the term "Air America" will be recognized by many in this context.

The real Air America was a covert, CIA owned and operated airline that transported anything, anywhere, anytime during the Vietnam, Korean and Indo-China wars of the late 1940s through to the early 1970s. Their pilots were mostly former U.S. military. An excellent book on the subject has been written. "Air America" the book by Christopher Robbins is a monumental work of research and understanding. If not the best, it is one of the greatest exposés of our time. Thank you, Mr. Robbins. Air America mostly flew supplies to friendly (read mercenary) regional armies. Some of these armies, such as those in Laos were funded by the CIA. The CIA has conducted similar operations all over the world.

"Air America" the book reveals that Air America was only one of many airlines owned and operated by the CIA during this period. Other CIA airlines such as Intermountain Airlines, Air Asia, Southern Air Transport, the aforementioned Civil Air Transport and others operated in China, Korea and/or southeast Asia at this time as well and were all organized under something called the Pacific Corporation. The Pacific Corporation was formerly the aforementioned American Airdale Corporation. The Pacific Corporation ran airlines that, collectively were

larger than any other single airline in the world." In the 1960s and 70s, the operation was worth hundreds of millions of dollars. The now defunct Pacific Corporation was a CIA front company founded and run by a man by the name of George A. Doole Jr. (1910-1985).

Christopher Robbins writes, "The CIA air proprietaries came about as a direct result of the creation of the Agency's Directorate for Plans, or Clandestine Service - dubbed the Department of Dirty Tricks - which pursued programs of covert action."

Pilots of the airlines organized under the Pacific Corporation smuggled everything from currency to drugs to precious metals to human beings. Of these different contrabands, opium was the most prevalent.

At least one has experienced an Air America that leaves any reasonable individual with a lot of questions. The following passage is from an Asian language magazine quoting a former Air America stewardess as recounted by Christopher Robbins, "Before this, I flew with Air America, but that was different, very different. Once, I went to work and had to fly on a plane full of dead bodies . . . better not say anything about that."

The aforementioned Southern Air Transport was involved in the Iran-Contra scandal. Investigative journalist Pete Brewton writes in his book "The Mafia, CIA, & George Bush:"

"Southern Air Transport was a CIA proprietary until 1973, when it was sold to the man who had been fronting the ownership for the CIA. The airline company was later sold to James Bastian, who had been an officer in Air America's parent company [the Pacific Corporation] and Southern Air Transport's in-house lawyer."

"When Southern Air's role in the Iran-Contra scandal was exposed - it had been the airline of choice to haul arms to Iran and to the Contras - Bastian denied any connections to the CIA. What he couldn't deny were connections to the CIA's Iran-Contra cutout, Oliver North, who went to his old buddy Oliver 'Buck' Revell, then Assistant FBI Director (and now special agent in charge of the FBI's Dallas office), to try to stop an FBI investigation into Southern Air Transport's suspicious activities."

In 1974, all the airlines of the Pacific Corporation were disbanded due to federal legislation passed as a result of congressional hearings conducted by Idaho Senator Frank Church.

Evergreen

One of the airlines formerly under the Pacific Corporation was the previously noted Intermountain Aviation. In 1975, Evergreen International bought Intermountain Aviation. Evergreen's president and founder Delford Smith (1930-2014) got a sweetheart deal. Intermountain's 12 aircraft were repainted in the colors of Evergreen International Aviation, Incorporated. The Intermountain Marana base at Pinal Air Park in Marana, Arizona became the Evergreen Air Center and the company's headquarters. Most Intermountain employees and executives stayed on to become Evergreen employees and executives.

Evergreen's accounting firm Arthur Andersen reported that assets almost doubled from the Intermountain acquisition. Even though *The Oregonian* reports that the Intermountain acquisition cost Evergreen less than three million dollars, assets went from a reported \$25 million in 1975 to a reported \$45.5 million in 1976. *The Oregonian* Newspaper did a series of investigative reports on Evergreen and all their shady connections back in 1988.

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Evergreen's accounting firm Arthur Andersen was the accounting firm that went under due to their role in covering for the thoroughly disgraced Enron Corporation. The Enron Corporation was the founder of the weather derivatives market which may have been created to make money from temperature fluctuations caused by the New Manhattan Project. We'll have more about that in chapter 7.

Christopher Robbins writes that shortly after the Intermountain acquisition, "The company [Evergreen] expanded rapidly to own almost 100 aircraft operating on four continents." In 1979, the company headquarters were moved to Newberg, Oregon and then in 1981, moved again to McMinnville, Oregon.



Evergreen Supertanker

Image credit: Evergreen International

Delford Smith was a master airplane trader and this is how he made the majority of his money. In the book "The Evergreen Story" by Bill Yenne, Evergreen founder and president Del Smith recalls, "It turned out that 66 percent of the profit made over the 25 years from 1960 through 1985 was in asset sales, and 33 percent was operating profits." Evergreen Aircraft Sales and Leasing was established in 1983 for the purpose of buying and selling aircraft and aircraft parts. In 2008, Evergreen Aircraft Sales and Leasing was renamed Evergreen Trade.



Delford Smith

Image credit: the Horatio Alger Association

Evergreen's business activities, aside from trading airplanes, included charter passenger and cargo service. They also did a lot of spraying or dumping substances from aircraft. Their first contract in this area was a sagebrush-spraying contract. Evergreen's mechanics even designed and patented aircraft spraying equipment. "The Evergreen Story" by Bill Yenne states, "...75 percent of its [Evergreen's] revenue flying hours in the mid-sixties were devoted to application [spraying] work..."

Evergreen did a lot of work for the United Nations. This time, the operations the UN was bankrolling often involved the spraying of insecticides in locations all over the world. Just as today's geoengineers say they will save us from the dreaded global warming, one can rest assured that Evergreen's global spraying operations were all humanitarian efforts as well. Starting in 1974, Evergreen sprayed insecticides in Africa for the UN's River Blindness Control Program. Evergreen also provided support to the UN's River Blindness Control Program in Nepal. Evergreen has also ferried cargo into Africa for the UN's High Commission for Refugees and the UN's World Food Program. Evergreen has supported the UN's so-called 'peacekeeping' efforts in: Angola, Liberia, Mozambique, Somalia and the Western Sahara.

Lastly, on the board of directors at Evergreen was the former boss of the CIA's Pacific Corporation, the aforementioned George A. Doole Jr.. Mr. Doole stayed on Evergreen's board of directors until his death in 1985.

In 2014 Evergreen Aviation International filed for bankruptcy and the company has since been sold. At the age of 84, Evergreen founder Del Smith passed away on November 7 of that same year. We'll have more about Evergreen Aviation a little later.

The Davis-Monthan boneyard

Evidence suggests that today's chemtrail fleet consists of overhauled, older model jumbo jet aircraft. The aforementioned 2010 cost analysis study done by Aurora Flight Sciences found

the most cost effective chemtrail spraying aircraft to be retrofitted jumbo jets. As we have seen, in congressional testimony geoengineers repeatedly suggested retrofitting existing U.S. Air Force planes.

Some chemtrail fleet planes have been expertly identified as retrofitted jumbo jets. Allan Buckmann is a former United States Air Force weather observer who worked on the Tiros III weather satellite system with NASA, RCA and the U.S. Navy. In a 2012 ActivistPost.com article titled "Chemtrail Whistleblower Allan Buckmann: Some Thoughts on Weather Modification," he wrote that he has repeatedly witnessed Boeing KC-135s, Boeing 707s and Lockheed C-141s spraying chemtrails.

<http://www.activistpost.com/2012/08/chemtrail-whistleblower-allan-buckmann.html>

In the first chapter, the KC-135 was also identified by an air traffic controller as being a plane that regularly sprays chemtrails.

There may very well be other types of planes that have been indoctrinated into this program, but KC-135s, 707s and C-141s have been identified expertly and therefore are worthy of further examination.

These three models of aircraft mentioned here are what are known as 'tanker' jets. They are referred to this way due to their sizable fuselages which provide a large cargo carrying capacity. Being that the planes of the New Manhattan Project necessarily need to be loaded up with electronics and lots of chemtrail spray, it makes sense that planes with lots of interior space and hauling capacity are used.

If one is to assemble a giant fleet of refurbished supertanker aircraft such as these, one needs a source of mothballed planes.

The largest repository of aircraft in the world is located at the Davis-Monthan Air Force Base in Tuscon, Arizona. It is called the 309th Aerospace Maintenance and Regeneration Group. It is commonly referred to as the Davis-Monthan boneyard; or simply 'the Boneyard.' This is where old KC-135s, 707s and C-141s (among many others) go to die. That is, unless they are re-animated. This facility may have provided a partial source of the planes used in today's New Manhattan Project.



The Boneyard

Image source: Google Earth

The developmental timeline of the New Manhattan Project suggests that these offending

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airplanes were retrofitted beginning in about 1980. As evidenced by reductions in government spending, the mid-1970s was around the time that the initial flurry of basic scientific research in support of the New Manhattan Project began to wind down. This suggests that by the mid-70s, the majority of the basic atmospheric research was completed and it was time to transition more into the New Manhattan Project's implementation phases such as assembling a fleet of jumbo jets.

If we give development of these airplanes 5 years, then these planes were probably regenerated starting in about 1980. We will have more about development shortly. Being that this is a continuing and probably expanding program, these aircraft regeneration activities probably continue to the present day.

More evidence for the assertion of this timeline has been provided by the former head of Lockheed's Skunk Works, Ben Rich. The Skunk Works produced airplanes. In his book "Skunk Works," Rich notes a dearth of airplane production materials and personnel in the early 1980s. He writes, "...I suddenly found myself on the short end of materials, subcontracting work, machine shop help, and skilled labor. Without warning, there was a dire shortage of everything used in an airplane. lead times for basic materials stretched from weeks to literally years." Production of the New Manhattan Project chemtrail fleet probably contributed to these deficiencies.

So, we have a large source of planes, the types of planes and a time frame: the Boneyard, KC-135s, 707s and C-141s, and 1980-today respectively. Let us apply this information.

Some Brits by the names of Barry Fryer, Danny Bonny, and Martin Swann for a long time now have been recording and publishing the Boneyard's airplane inventories. Their books are compiled from Davis-Monthan's publicly available records. Let's take a look at them.

For the years 1982-2005, the books by Fryer, Bonny and Swann show: a company called Tuscon Iron and Metal received 24 Boeing 707s and 54 Lockheed C-141s, something called National Aircraft Incorporated received 64 Boeing 707s and 25 Boeing KC-135s, an outfit calling itself HVF West took on 99 Lockheed C-141s, and lastly Tinker Air Force Base got 13 KC-135s.

The Tuscon Iron and Metal website says that they are a metal recycling company. Ostensibly, Tuscon Iron and Metal recycled the 24 Boeing 707s and the 54 Lockheed C-141s they got between 1982-2005 and turned them into sheet metal, pipes and the like.

According to what is available online, Tuscon's National Aircraft Incorporated looks like some type of small, private boneyard near the big boneyard at Davis-Monthan. God knows what they did with the 64 Boeing 707s and the 25 Boeing KC-135s they received between 1982 and 2005. Maybe they turned around and sold them to a regeneration center.

HVF West is another outfit headquartered in Tuscon, AZ. They have a decent website. They say their specialty is the 'demilitarization' of old military aircraft. This involves dismantling the plane piece by piece, selling valuable parts and recycling recyclable metals. So, ostensibly this is what they did with the 99 Lockheed C-141s they received between 1982 and 2005.

Coming up shortly in the 'production' section, we'll have more about Tinker AFB and the 13 Boeing KC-135s they got between 1982 and 2005. Yes, it appears that Tinker AFB may be churning out the New Manhattan Project chemtrail fleet airplanes.

Drones

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Evidence and logic suggest that these aircraft of the New Manhattan Project are operated remotely as drones or as the military calls them: unmanned aerial vehicles (UAVs). Jumbo jet airplanes such as those used in the New Manhattan Project have been capable of remote operation for a long time now.

Nikola Tesla's biographer John J. O'Neill writes of remote controlled bomber aircraft in use near the end of the First World War. In his book "Call Me Pat," the former head of Hughes Aircraft writes that as early as 1926 Carlos Mirick of the Naval Research Laboratory, "was working on a remote controlled aircraft project." For target practice, the Air Force produced radio controlled aircraft dating back to at least 1947. In his book "The Business of Science," former Hughes executive Simon Ramo makes note of a remotely piloted bomber in use around 1950. As part of Project Cloudbuster, our Air Force was using drones for weather modification by 1964. As mentioned earlier, during Congressional testimony in 2009 and 2010, geoengineers repeatedly called for chemtrail aircraft to be drones. Also as noted earlier, the seminal 1996 document "Owning the Weather in 2025" describes drone aircraft spraying substances for the purpose of weather modification.

Remotely piloted aircraft are advantageous in the context of the New Manhattan Project because pilots are full of liabilities. Pilots have ethics. Pilots might blab about the project. Pilots can only fly for a certain number of hours. Pilots are unionized. Pilots are expensive. Many robot planes could be controlled by a single operator or a centralized computer (ch 6). Robot planes would make the project run more smoothly.

Why not? The conventional weather modification industry is starting to use them. According to AccuWeather.com, in late 2013 the Federal Aviation Administration selected six states for participation in a pilot program using drone aircraft for the purpose of spraying the conventional weather modification industry standard silver iodide. Although we know that silver iodide is not what the New Manhattan Project aircraft spray, the concept is the same.

Other automated systems

The New Manhattan Project chemtrail fleet may also involve other automated systems. The Air Force writes that as early as 1964 Honeywell was demonstrating 'self-repairing circuitry.'

U.S. Patent #6,131,854 "Ground Handling Apparatus for Unmanned Tactical Aircraft" describes a system whereby a drone can land on a runway and then be remotely hooked onto a track system that pulls the airplane through a series of automated stations that diagnose the aircraft, arm or disarm the plane, and lastly refuel the aircraft.

Another document in the series containing the infamous "Owning the Weather 2025" is titled "Aerospace Sanctuary in 2025 - Shrinking the Bull's Eye." This air force document speaks to extensive automation of all aspects of aircraft handling. It reads:

"Use of robotics can synergistically increase effectiveness by reducing manpower, infrastructure, and other support systems typically required for 24-hour operations on the flight line, in the bomb dump, and around the base. Today's robot is a mere infant compared to what may be available in 2025. The present advantages of implemented parallel processing in robots allow rudimentary cognitive skills. When combined with the limited motor sensory skills available today, robotic structures are able to perform limited inspections on aircraft. By 2025, robots could be designed as advanced 'tools' with the capability to fully inspect, diagnose, and

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maintain aircraft, as well as most other base systems for day-to-day operations. Robots could be expected to perform refueling operations, buildup, transport and loading of weapons, security functions, and even explosive ordnance disposal. The large computing capacity expected to be available in 2025 suggests that a single robot may be capable of alternating among the aforementioned tasks for every aircraft on the flight line, including those of our allies. Each robot could be engineered to be resistant to varying types of environmental extremes to retain its functionality; that is, ultraviolet rays, precipitation, cold and heat, EMP, and chemical/biological attacks."

The authors continue:

"The remaining airfield operations would be automated and fine tuned specifically to accommodate a combat turn type of ramp function. On approach, aircraft would automatically report their status to the base system through an unmanned control center. The control center would distribute the data throughout the base. The distributed information would include tasking specified support functions. For instance, fuels would know how much fuel is required. Munitions storage would know which armaments to select and transport to the aircraft for loading. Aircraft maintenance would know whether they need to respond to the aircraft to conduct system checkouts, repair, or replace components, and exactly what they need to bring with them. The base would be totally coordinated in supporting the aircraft's next mission. The aircraft would be directed to a specific location on the airfield where all support functions would automatically converge. The entire operation would be handled predominantly by robots. Delivery and loading of munitions, refueling, and final system checkout would all be automated. The only humans involved in the operation would be those necessary to perform high dexterity operations and to visually supervise the activities."

These types of systems would be advantageous to a covert project like the New Manhattan Project in that these systems reduce the number of Humans needed to conduct operations and therefore reduce the probability that the project will be exposed.

Power beaming

The proprietary aircraft of this new Manhattan Project may be powered wirelessly and have no need for conventional jet fuel. For this assertion, there is plenty of evidence.

Yes, power can be transmitted wirelessly. This is not a new thing. If you are unaware of this, please search the term 'wireless power.' The Wikipedia listing alone provides an overwhelming amount of information. There is so much material available here that your author has excluded lots of information which many would characterize as indispensable.

The wireless transmission of power goes back to Heinrich Hertz and Nikola Tesla. Heinrich Hertz (1857-1894) first demonstrated it. Nikola Tesla (1856-1943) later popularized it. Tesla demonstrated wireless lamps in 1892 and often suggested remotely powered aircraft.

In his 1905 United States patent #787,412 "Art of Transmitting Electrical Energy Through the Natural Mediums" Tesla describes how electromagnetic energy may be sent and received through the atmosphere. Tesla's later patent #1,119,732 "Apparatus for Transmitting Electrical Energy" advanced plans for a wireless power transmission station.

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A Westinghouse Laboratory scientist by the name of H. V. Noble demonstrated wireless power transfer at the 1933 World's Fair in Chicago. In the late 1930s, significant technological advancements (klystron tubes and microwave cavity magnetrons) advanced the field.

In the late 1950s, George Goubau, F. Schwing and others demonstrated that microwave power could be transmitted with efficiencies approaching 100 percent. This was later confirmed by Raytheon. Another significant advancement in this era was something called an Amplitron. These developments along with a growing need for this type of technology motivated Raytheon to study and propose the Raytheon Airborne Microwave Platform (RAMP) concept in 1959 to the Department of Defense.

Let us reference William C. Brown's (1916-1999) dissertation "The History of Power Transmission by Radio Waves." It reads:

"The proposed platform, to be flown at 50,000 ft, was a large helicopter which a number of cooperating helicopter companies studied and concluded would be feasible. While the Department of Defense did not subsequently support the development of RAMP, Raytheon's briefings broadly spread the concept and encouraged the support of technology developments that were felt necessary for its practical realization."

In 1964, Raytheon demonstrated a 5 lb. wirelessly powered helicopter flying at an altitude of 50 ft. for 10 hours. About this, the aforementioned William Brown of Raytheon Company wrote:

"In 1963, the Rome Air Development Center of the United States Air Force became interested in supporting a feasibility study to construct and fly a microwave-powered helicopter and awarded a contract to the Raytheon Company in June 1964. In October of the same year, the Rome Air Development Center and the Raytheon Company jointly sponsored a public demonstration of a microwave-powered helicopter which received all power needed for its flight from a beam of microwave energy. This flight which established the technical feasibility of the microwave-powered helicopter is the most recent completed development in this area. There are now plans to go ahead with the next phase of development."

This October, 1964 demonstration was covered by Walter Cronkite and the CBS evening news.

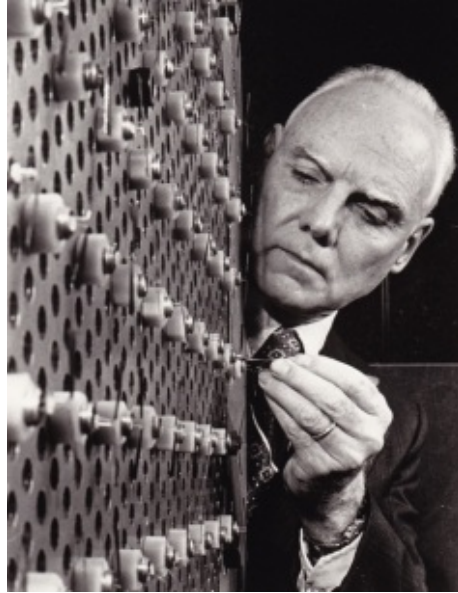
Beginning in 1977, the field of wireless power transmission got a big boost from a joint Department of Energy (DOE) and National Aeronautics and Space Administration (NASA) assessment study of a solar-power satellite concept. A solar panel is a lot like a power receiving antenna known as a 'rectenna.' Along with Raytheon and the Air Force again, corporations such as Boeing and Rockwell International became involved. The study concluded in 1980. Following the conclusion of the joint DOE/NASA study, NASA continued work in the area of wireless power transmission by sponsoring studies on microwave-powered high-altitude atmospheric platforms.

In 1984, Raytheon's William Brown wrote pertaining to the wireless powering of satellites:

"It is interesting to note that the technology has now matured to the point where it is seriously

being proposed as an alternate approach to the use of solar photovoltaic arrays in applications where hundreds of thousands of kilowatts of continuous power may be desired for propulsion or for payload."

In this same piece, William Brown also depicts and writes of a rectenna attached to the wing of a small airplane said to be achieving 85% efficiency. This new technology is described as, "...applicable to vehicles in space and to vehicles in the Earth's atmosphere." William Brown should know. He was the leading expert in the field.



William C. Brown

Image source: unknown

The 1991 United States patent #5,068,669 titled "Power Beaming System" is one of the original HAARP patents (ch 3). This patent outlines the technical details of how to remotely power airplanes. Let us refer once again to a passage from the seminal book "Angels Don't Play this HAARP." Authors Dr. Nick Begich and Jeane Manning reference an Aviation Week article:

"This 'Star Wars' technology developed by ARCO Power Technologies, Incorporated [patent #5,068,669's assignee] was used in a microwave-powered aircraft. The aircraft was reported to be able to stay aloft for up to 10,000 hours at 80,000 foot altitudes in a single mission. This craft was envisioned as a surveillance platform. The craft had no need for refueling because the energy was beamed to it and then converted to electrical energy for use by the aircraft. Flight tests were undertaken at Tyendinga Airport near Kingston, Ontario, Canada in the early 1990's. This test by APTI most likely involved this patent..."

There are scores of other patents pertaining to the wireless powering of vehicles. From the early U.S. patent #3,464,207 "Quasi-Corona-Aerodynamic Vehicle" to the Queen of England's U.S. patent #4,955,562 "Microwave Powered Aircraft" to another patent of the same name (U.S. patent #5,503,350) to the U.S. Navy's patent #6,364,253 "Remote Piloted Vehicle Powered by Beamed Radiation" to Power Beaming Corporation's patent #6,534,705 "Methods and

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Apparatus for Beaming Power" to U.S. patent #7,711,441 "Aiming Feedback Control for Multiple Energy Beams" to U.S. patent #7,929,908 "Method and System for Controlling a Network for Power Beam Transmission" to the U.S. patent "Photovoltaic Receiver for Beamed Power" to the U.S. patent "Unmanned Vehicle and System" to U.S. patent #8,876,061 "Methods and Systems for Beam Powered Propulsion," the reality of this technology, applicable to the New Manhattan Project, is apparent.

If ground-based antennas like HAARP are powering the chemtrail airplanes, this would be a great logistical advantage as the planes would not need to be grounded for refueling. The airplanes would probably only need to be grounded for payload and maintenance and therefore could remain in the sky, performing their functions without interruption for much longer periods of time. This would also be an advantage because the more time these planes spend in the air, the less chance there is of the program being exposed. It's incredibly difficult (as this author has learned) to expose something going on at 40,000 ft. in the sky. Also, the space usually required for fuel can be used to store chemtrail spray instead. The power beaming need not be constant as the airplanes could utilize rechargeable batteries.

Development

The highly specialized aircraft described here would necessarily need to be developed. These are not off-the-shelf aircraft and are, in fact, quite secret. Extensive research, development and testing would be required. This research, development and testing would best be suited to a single base of operations. Multiple bases of development separated by significant distance would not be desirable because people work better together in close proximity and multiple development centers would increase security risks. Anyway, as far as the development phase goes, all you need is one or two planes, so all you need is one location.

Although we have seen evidence of the Rome Air Development Center developing pertinent technology and Lockheed's famous Skunk Works might also be seen as possibly responsible, a more logical choice exists.

One of the types of aircraft expertly identified by Mr. Buckmann is the Boeing KC-135. Wright-Patterson AFB has an extensive history of retrofitting KC-135s. Further, Wright-Patterson has an extensive history of retrofitting KC-135s for activities pertaining to weather modification and the atmospheric sciences. The Boeing KC-135 is a close relative of the Boeing 707 which is also noted by Mr. Buckmann as one of today's offending aircraft. Scientific reports going back to 1960 are rife with instances of our Air Force retrofitting KC-135s for use in programs involving weather modification and the atmospheric sciences.



Boeing KC-135

Image source: Wikimedia Commons



Wright-Patterson Air Force Base
Image source: Google Earth

Let us reference Robert S. Hopkins' book "Boeing KC-135 Stratotanker: More than Just a Tanker." Mr. Hopkins expounds upon the easily modifiable KC-135 and how Wright-Patterson AFB was the best place to modify them:

"...the KC-135 was the logical choice as a test bed platform [experimentally modified airplane] due to its size, capacity, speed, endurance, high altitude capability, and suitability for extensive modification. With a dozen early production KC-135s serving in a temporary test and evaluation role at Wright-Patterson AFB, Ohio, the nexus of Air Force research, their jump from basic flight test airplanes to research platforms was simple and immediate."

"From their arrival in 1957 at Wright-Patterson AFB for operational test and evaluation, until their transfer in 1994 to Edwards AFB as part of the sweeping reorganization of the Air Force, test-bed KC-135s have long been synonymous with 'Wright-Pat.' These airplanes were assigned to the Flight and All-Weather Test Division at WADC at Wright-Patterson AFB."

In the 1960s, automated take-offs and landings of the KC-135 were evaluated. This is consistent with the author's previously asserted contention that the New Manhattan Project chemtrail fleet consists of drone aircraft.

As far as development of the vehicles is concerned, Wright-Patterson AFB is a prime suspect. Development of a super-cool, cutting edge, next generation jumbo jet in the land of the Wright brothers might go over well. Wright-Patterson AFB is located just outside of Dayton, Ohio where the aviation pioneering Wright brothers lived. This also may have been the location to develop and produce the first New Manhattan Project chemtrail plane. The Boeing KC-135 Stratotanker appears to be the likely airplane of choice.

As a result of the Base Closure and Realignment Act of 1988, the Davis-Monthan boneyard came under the command of Wright-Patterson. Later, the aforementioned Rome Air Development Center was renamed the Rome Laboratory and placed under Wright-Patterson's command as well. If you will recall, Rome Air Development Center is a location where power beaming technology was developed. Lastly, as noted earlier, Wright-Patterson AFB is also one of the main developers of HAARP.

Production

Once Wright-Patterson established a standardized process for turning old bones into awesome new meta-jets, many other maintenance facilities around the country and around the world may have then replicated these same activities. During the chemtrail fleet production phase, multiple modification and regeneration centers would probably be called for because many of these facilities probably don't have the capacity to work on more than 2 or 3 planes of this size and secrecy at a time. The production of chemtrail fleet aircraft would require lots of manpower, technology, planning, infrastructure, and security.

Wright-Patterson itself may have produced many of these regenerated aircraft. Other maintenance facilities involved may have included: the Aerospace Maintenance and Regeneration Group at Davis-Monthan AFB, Tinker AFB, a Taiwanese airport, and the Evergreen Air Center.

The Davis-Monthan boneyard has world class aircraft maintenance, modification and regeneration facilities as well. Maybe New Manhattan Project (NMP) airplanes have been conveniently overhauled and retrofitted on site.

Tinker Air Force Base may have been another location to produce chemtrail fleet aircraft. Tinker AFB has an extensive history of maintenance and modification of the Boeing KC-135 Stratotanker. As we have seen, Tinker AFB was the recipient of 13 mothballed KC-135s between 1982 and 2005. These mothballed planes may have served as bones of the New Manhattan Project chemtrail fleet. From 1959-2001, Tinker worked on 3,336 KC-135s. In the 1980s, just in time for NMP aircraft production, Tinker AFB got greatly expanded and updated aircraft repair and modification facilities. Lastly, it is also interesting to note that Tinker AFB is the base where chemtrail whistleblower Kristen Meghan was working when she noted and later publicized anomalous deliveries of aluminum, barium, and strontium.



Tinker Air Force Base

Image source: Google Earth

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Another maintenance facility which may have been involved is on the grounds of Tainan Airport in Taiwan. This is the facility noted in a shortly forthcoming quote engaging in airplane serial and tail number shenanigans. These were the maintenance facilities of CIA proprietary Air Asia. These vast, world class maintenance facilities were purchased in 1975 by the aforementioned E-Systems. If you will recall, E-Systems built HAARP (ch 3).



Tainan Airport

Image source: Google Earth

As previously noted, Evergreen Aviation operated a maintenance and repair facility at their Evergreen Air Center in Marana, Arizona. This location is a prime suspect for having produced airplanes of the New Manhattan Project chemtrail fleet. This location had world class maintenance facilities, ample storage and a history of accommodating the U.S. military and the CIA.



Evergreen Maintenance Center

Image source: "The Evergreen Story" by Bill Yenne

Also as previously noted, this air center was acquired from the CIA's Intermountain Aviation. The CIA offered it only to Evergreen; nobody else. Before that, the base originated as Marana Army Air Field; a United States Army Air Force base. The United States Army Air Force is the predecessor to today's United States Air Force.

Reminiscing about the former Intermountain Marana base, the author of "The Evergreen Story" Bill Yenne quotes Evergreen founder and president Delford Smith:

"It was a natural fit,' Del Smith recalls. 'Intermountain approached us and explained that they had a repair station with an unlimited, Class I through IV certification, which gives Federal Aviation Administration authority to work on any type of aircraft. We really bought Marana for our own planned needs, but as we grew, it would change into more of a third-party operation.'"

Let us reference another passage from "The Evergreen Story:"

"The Evergreen Maintenance Center (EMC), located in Marana, Arizona, is one of the most comprehensive and diversified maintenance facilities in the Western Hemisphere, including the world's largest storage and preservation facility for private and commercial aircraft. The Maintenance Center also has an on-site engineering department to support routine maintenance, modification and conversion work."

On page 217, "The Evergreen Story" continues:

"Evergreen Maintenance Center is one of very few companies in the United States with several Federal Aviation Administration Certificated Repair Station ratings, as well as European Joint Aviation Authorities (European Equivalent of FAA), JAR-145 (Joint Aviation Requirements 145) ratings and those of other international agencies, such as the International Organization for Standardization (ISO), European Aviation Safety Agency (EASA) and the Chinese Civil Aviation Authority (CAAC)."

"The Evergreen Story" also recounts, "The early years of majority in-house work [working on Evergreen aircraft] shifted to majority third-party work in the eighties and early nineties." This is consistent with the author's proposed chemtrail fleet development and production timeline.

Also, a former manager at the Evergreen Maintenance Center notes that at the time of acquisition, Evergreen started with about 40 center employees. Eight years later in 1982, there were 350 working out of the EMC. As we have seen, 1980 is probably about the time when the New Manhattan Project chemtrail fleet went into production.

In 1985, Evergreen's George A. Doole Aviation Center at the Evergreen Maintenance Center came online which expanded and updated the EMC's capabilities. The aforementioned George A. Doole, if you will recall, was the guy who founded and ran the CIA's Pacific Corporation. Also as previously mentioned, George A. Doole was on the Evergreen Aviation board of directors.

"The Evergreen Story" states that, "...the entire Pan American World Airways fleet of Boeing

707's was stored at Evergreen Maintenance Center. As we have seen, the Boeing 707 is one of the airplanes expertly identified as a chemtrail spraying aircraft.

As the crow flies, the former Pinal Air Park is only 17 miles from the Davis-Monthan Boneyard. If aircraft stored at the Boneyard were airworthy or even towed out and along the highway, transferring these old dogs from the Boneyard to Pinal would be relatively easy. Let us again reference a passage from "The Evergreen Story." Bill Yenne writes:

"Evergreen Maintenance Center also was doing military and government work for the United States and other countries. These projects included a contract for overhauling the transmission and rotor-heads of Peruvian helicopters and reconditioning aircraft that came out of long term storage at the US Air Force's Military Aircraft Storage & Disposition Center at Davis-Monthan AFB south of Tuscon. The proximity of Evergreen Maintenance Center to Davis-Monthan has always put Evergreen in a good position for military contracts."

The Oregonian was more explicit: "Under both Intermountain and Evergreen, planes from the boneyard have been short-hopped to Marana's giant shops and reconditioned for assorted customers, including, under Evergreen, the Colombian Air Force."

As this book continues to unfold, we will see that today's chemtrail spraying operations are part of a military program. So it makes sense that Evergreen International would have an extensive history of working for what passes for our U.S. military.

As noted, Evergreen has conducted lots of military aircraft maintenance and regeneration work. Also as previously noted, Evergreen's headquarters in Marana, Arizona was originally a U.S. military base. Evergreen has also worked with the United States Air Force spraying rice crops in Pakistan. In 1978, Evergreen had a passenger service contract with the US Navy. In that same year of 1978, Evergreen started flying lots of personnel and materiel for the former US Air Force Military Airlift Command. It helps when the former chief of the Military Airlift Command General William G. Moore is on your board of directors. Evergreen operated small planes in Panama under contract with the Department of Defense. Evergreen participated in something called the Civil Reserve Air Fleet which augmented U.S. military operations such as those in the Middle East. Just as the Western-instigated wars in the Far East were good for Air America's business, the Western-instigated Middle East wars of late were very good for Evergreen's bottom line.

Evergreen has also done work for the National Aeronautics and Space Administration (NASA). Evergreen maintained the jumbo jet that carried the Space Shuttle piggyback. This is significant because NASA has a long history of contributing to weather modification and the atmospheric sciences.

Evergreen had a division which supplied customers with the services of drone aircraft called Evergreen Unmanned Systems. As we have seen, there is plenty of evidence for the assertion that the airplanes of today's New Manhattan Project chemtrail fleet are operated remotely as unmanned aerial vehicles.

The security at the Evergreen Maintenance Center was extraordinary. Being that the regeneration of airplanes to be used in the New Manhattan Project is highly secret work, this level of security would be advantageous. *The Oregonian* writes:

"The presence of so many expensive aircraft is the reason given for the visibly high level of security at Evergreen Air Center. Visitors don't wander in casually. Guards in military-green uniforms with Evergreen patches on the shoulders control traffic through the entry gate. A candy-striped barrier like a railroad-crossing gate swings down to stop vehicles the guards don't recognize."

"Visitors' identities are checked, their appointments verified with phone calls and passes are issued to dangle on rear-view mirrors and clip to lapels. Behind the neatly kept guard building is a dog run housing German shepherds that help patrol the area at night."

As we have seen, Evergreen had extensive ties to the CIA. The CIA can provide cover for covert operations such as those described here. The CIA may have helped cover the Chemtrail Fleet's tracks. Let us refer again to the book "Air America." Christopher Robbins writes:

"All planes have tail numbers, and their engines and instruments are numbered as well, which makes disguise difficult. The CIA would keep a list of the aircraft that had crashed and then create two or three airplanes with the same tail number, and two or three with no tail numbers at all. Then, in an exceedingly complex operation using very careful manipulation and scheduling, they would cause aircraft to show up in places two at a time, making them impossible to follow. On top of this, Air America had the capacity on Taiwan and at Udorn to manufacture their own planes. The idea was to create a plane that did not exist, one that even the manufacturer back in the States would swear had never been made. Instruments and engines were produced with no serial numbers and no decals, which was a problem in itself because an engine is dye-stamped, and even if the numbers are erased, the stamp can be seen on the metal."

In short, Evergreen was the right operation with the right pedigree and the right connections at the right time to be involved in assembling the airplanes of the New Manhattan Project. Just as the New Manhattan Project operates on a global scale, so did Evergreen Aviation. Maybe Delford Smith and Evergreen Aviation were instrumental in not only regenerating the airplanes, but also in brokering the deals for the airplanes. As noted earlier, Evergreen Aviation made most of its money buying and selling aircraft and had a special division (the aforementioned Evergreen Aircraft Sales & Leasing) devoted to the task.

In 2011, Evergreen sold the maintenance and repair facilities at Pinal Airpark, Marana, Arizona to a New York based private equity firm called Relativity Capital. The facilities now go by the name Marana Aerospace Solutions.

Many other aircraft maintenance facilities may have also been involved, but those noted here are the most probable.

There also have existed aircraft maintenance and modification centers dedicated to work in the area of the atmospheric sciences. Most notably the National Center for Atmospheric Research (NCAR) Research Aviation Facility and the National Oceanic and Atmospheric Administration (NOAA) Research Flight Facility have historically modified many airplanes. The modifications involved outfitting the airplanes with atmospheric monitoring and modification equipment and in some cases reinforcing an aircraft to be able to withstand certain inclement weather conditions such as large hail. These facilities may have played a role in the

development and/or production of the New Manhattan Project chemtrail fleet. Being that today's offending airplanes are probably used to collect atmospheric data as they saturate our atmosphere, the equipment used to accomplish this may very well have come from these atmospheric flight research facilities.

Spiked jet fuel?

Although the focus of this chapter has been upon the NMP's dedicated aircraft fleet, evidence suggests that common, commercial airliners may be emitting toxic chemicals as part of this project. The director of the Center for Energy and Combustion Research at the University of California at San Diego, a man named Stanford Solomon Penner, suggested in 1984 that commercial airliners fly at relatively high altitudes and emit more particles to save us from global warming. Not only that, but, as noted in chapter 8, Wright-Patterson AFB conducted a series of studies involving aluminum nanoparticle exposure. One of these studies noted that we are prone to inhale aluminum nanoparticles because they are used in jet fuels. Lastly, Raytheon's infamous "Stratospheric Welsbach Seeding for Reduction of Global Warming" patent advocates for aluminum-spiked jet fuels. This may explain the longer than normal, but still dissipating, (supposed) contrails we see every day.

Conclusions

From Civil Air Transport to Air America to Evergreen International, this chapter shows that the CIA runs large American covert aircraft operations. As we will see in chapter 10, the CIA is probably also providing other cover for the New Manhattan Project today.

Guess who was the head of the CIA in 1965... Vice Admiral William Francis Raborn, United States Navy.

The history of this rare breed of aircraft described here is filled with adventure, intrigue, big business, high technology and big media. The topics of aircraft and aviation are similarly steeped. People have historically been fascinated with flight. This fascination seems to the author to have diminished somewhat in recent decades. What was once extraordinary is now commonplace.

Just as generations before us marveled at the development of aeronautics, so should today's. We have seen that exciting technologies exist. Instead of covertly building chemtrail planes and spraying God's creation, our government representatives should work to create an environment where new, wholly different generations of air and space vehicles can develop. This, of course, should be done in an open and transparent fashion which welcomes the input of concerned citizens and be within the bounds of the law, morality, and common sense. It is a shame that today's New Manhattan Project chemtrail fleet has made a black mark on the otherwise wonderful history of aviation.

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Chapter 5

ALUMINUM, BARIUM, and STRONTIUM

For about 20 years now, the people running the New Manhattan Project have been saturating our atmosphere and forcing us to ingest the witches' brew coming out of the back of their airplanes. It is not normal jet engine exhaust. Contrary to what the ignorant and deceptive propose, the most common chemtrail sprays have been found to consist of aluminum, barium and strontium: in that order. Probably hundreds of times, lab tests from around the world have confirmed this.

Rainwater sample test results from Europe and America showing elevated levels of aluminum, barium and strontium have been compiled at GeoEngineeringWatch.org and ChemtrailsProjectUK.com. Many other test results can be found at GlobalSkywatch.com. All over the Internet, from all over the world, countless other verifiable test results have been posted.

As now has been repeatedly shown, whenever we gain a basic understanding of any given aspect of the New Manhattan Project, we can also subsequently find lots of evidence supporting its historical evolution in a coherent chronological order. Our discovery of the chemtrail spray ingredients and the historical development thereof is no exception. This is not a coincidence, but it is quite interesting when one considers that all Western governments continue to claim that this project does not exist. In this case, the relevant historical evolution is that of aluminum, barium, and strontium used as ingredients in chemical sprays designed for use in weather modification and the atmospheric sciences. Along with brief technical discussions, this chapter examines that history.

Different substances / different uses

Aluminum oxide is the main substance and the focus of this chapter. A litany of evidence for aluminum being used as a nucleant (as they call it) for weather modification is in the next section.

Being that aluminum has been found to be the main chemtrail ingredient and that there is a grand history of aluminum particles being used in weather modification activities, the New Manhattan Project most probably utilizes aluminum oxide particles to modify the weather. Although at this point the current methods have not been disclosed and therefore it is largely speculation as to exactly how said weather modification is accomplished, there are some reasonable schools of thought.

One school of thought proposes that the aluminum particles (or particles comprised largely of aluminum) are hit with electromagnetic energy that makes them heat up and, in this way, high pressure zones are created. If high pressure zones can be created, low pressure systems can be pushed around.

Another school of thought suggests that the dispersed particles collect small amounts of water

on them (nucleate), then electromagnetic energy is applied to them in order to move them around. As outlined in chapter 3, certain electromagnetic frequencies can resonate with atmospheric particles and thus put the particles under the power of the electromagnetic energy. Once resonance is achieved, the particles, along with the water, can be moved; presumably over vast distances. In this way, large masses of atmospheric water can be moved anywhere the geoengineers wish. It is also reasonable to assume that once these masses of water achieve their destination, a different electromagnetic frequency can induce the particles to coalesce into larger drops and thus produce rainfall. As their operations are geared towards producing rain, maybe the conventional weather modification industry also has something to do with this eventual deposition.

These schools of thought are not mutually exclusive. These may be simply different techniques performed upon the same particles depending upon the desired effect.

Ionospheric manipulations independent of chemtrails such as redirecting the jet stream can work in conjunction with the lower-altitude manipulations of aluminum particles. If, through the principle of resonance, atmospheric water can be induced to hitch a ride on the jet stream, then redirecting that stream may be advantageous. The other things ionospheric heaters such as HAARP can do to help modify the weather without chemtrails are highly technical and many. What is presented here is a cursory overview.

My science advisor Ginny Silcox wrote an article for ActivistPost.com titled "Electromagnetic Energy in the Air" which goes over some of the probable techniques.

<http://www.activistpost.com/2016/01/electromagnetic-energy-in-the-air.html>

God bless Elana Freeland. Her excellent 2014 book "Chemtrails, HAARP, and the Full Spectrum Dominance of Planet Earth" goes into the scientific details of how electromagnetic energy and atmospheric particles are used to modify the weather. It's not an easy job. This stuff is highly technical. In fact, she says her next book will be about the biological impacts; specifically Morgellons disease (chs 8 & 10). We should all be glad that we have a competent researcher investigating deeply the most technical aspects of the New Manhattan Project.

Barium has well known properties and uses. Barium is used not for modifying the weather, but rather as a tracer for gathering atmospheric data. It shows up on radar well. The literature pertaining to weather modification and the atmospheric sciences is full of references to radioactive materials such as forms of barium being used as atmospheric tracers. Let us refer to a 1962 report by the National Academy of Sciences titled "The Atmospheric Sciences 1961-1971." This report states:

"Radioactive substances of suitable half lives [sic] injected into the air are very useful as tags and may be used to study air motions on a variety of scales. Tracers used in sufficient amounts for this purpose could add immeasurably to our knowledge of the currents of the atmosphere and the dispersion within air masses."

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Barium sulphate is commonly used in radar applications similar to those seen in the New Manhattan Project. It shows up on radar consistently well due to its opacity. The 2011 textbook "Introduction to Remote Sensing" says:

"Everyday materials, despite their visual appearance, do not provide uniform brightness over a range of nonviable wavelengths, so reference panels must be prepared from materials with well-known reflectance properties, such as barium sulphate (BaSO₄), or proprietary materials, such as Spectralon."

We'll have more about remote sensing in the next chapter.

A little later in "The Atmospheric Sciences 1961-1971," the authors expand further upon the usefulness of radioactive isotopes. Under the heading "Research on Trace Substances," the report's authors write:

"Where radioactive compounds are involved, containing tritium or carbon 14, radioactive decay times lead to a calculation of the time elapsed since the formation of the water or carbon dioxide in the sample. Thus, it is possible to date the rain water and the water in wells, rivers, and oceans, and to use this information to study the exchange processes between the upper and lower atmosphere, between the atmosphere and the oceans, and between the atmosphere and the Earth. Research in this area should be vigorously pursued."

This passage suggests that barium is being used today as a way to trace the entire hydrological cycle.

In the 1972 Interdepartmental Committee for Atmospheric Sciences report, a more technical discussion of this type of program is found. On page 18 it reads:

"Atomic Energy Commission research in precipitation scavenging by convective storms requires knowledge of both the storm and cloud dynamics and the microphysics of the precipitation processes. Atomic Energy Commission laboratories and contractors have developed considerable expertise in the use of selective chemical tracers which can be introduced into the storm or cloud as a function of time, altitude or position. Subsequent analysis of the tracers in the resulting precipitation provides details of dynamical features of the storm, hydrometeor growth rates and mechanisms and the spatial and temporal distribution of precipitation."

"Two types of tracers have been used, specific chemical elements rare in abundance in the atmosphere, and the cosmogenic radionuclides produced naturally in the atmosphere by cosmic ray actions with argon. The chemical tracers are introduced into the storm as aerosols via aircraft and/or surface generators. Analysis of the resulting precipitation for the tracer elements provides insight into the time scales and trajectories of the air motions within convective storms and into the hydrometeor growth rates and deposition patterns."

"Cosmogenic radionuclides (particularly Na-24, Cl-38 and Cl-39 with 15 hr, 37 min, and 55 min half-lives respectively) can also be measured in precipitation. These are produced in the atmosphere at known production rates, attached to the natural aerosol and coexisting, presumably, with freezing nuclei, condensation nuclei and inactive aerosols. Because of their

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differing half-lives, the cosmogenic nuclide ratios can be used to determine cloud development times and hydrometeor growth rates and mechanisms. The use of inert chemical tracers and the cosmogenic radionuclides together affords the opportunity to relate the dynamics of the cloud or storm system to precipitation effects such as heavy rainfall, or damaging hail through severe storm research programs such as NHRE, STORMFURY, and Metromex. Tracer techniques also offer unique potential in the evaluation of the various weather modification projects currently being conducted by the various Federal Agencies."

"Currently, the AEC [Atomic Energy Commission] support of the Illinois State Water Survey in Metromex is directed at the use of chemical tracers to determine the dynamics and efficiency of urban modified severe storms to ingest and precipitate atmospheric aerosols. The tracers are released either by aircraft into the storm updraft or from the surface."

Because strontium, like barium, can be radioactive, it is probably used as an atmospheric tracer as well.

Aluminum and weather modification

Since at least 1954, researchers have been busy developing the aluminum concoctions ultimately used in today's New Manhattan Project. This section recounts the chronological development of aluminum nucleants utilized in weather modification and the atmospheric sciences.



Norihiko Fukuta at the cloud chamber

Image source: unknown

In 1958, Norihiko Fukuta (1931-2010) of Nagoya University in Japan published a paper titled "Experimental Investigations on the Ice-Forming Ability of Various Chemical Substances" which appeared in the *Journal of Meteorology*. This paper referenced an earlier paper (1954) by Asada, T., H. Saito, T. Sawai, and S. Matsumoto. Fukuta asserts that this earlier foursome

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discovered the usefulness of aluminum oxide as a nucleant. Fukuta's paper reads, "Asada tested the activities of various substances of cubic and hexagonal shape considered similar to ice structure and consequently discovered the effectiveness of aluminum oxide." The author has been unable to find this 1954 document. 1954 is the earliest reference to aluminum oxide used as a nucleant known to the author.

Fukuta's 1958 paper also details his research utilizing Al_2O_3 (aluminum oxide) as an experimental nucleant.

The 1962 U.S. patent #3,274,035 "Metallic Composition for Production of Hygroscopic Smoke" by Lohr A. Burkardt and William G. Finnegan describes how aluminum, barium and strontium may be used as ingredients in, "...a composition which produces hygroscopic smoke for use in influencing the weather."

The 1964 U.S. patent #3,140,207 "Pyrotechnic Composition" by Mary M. Williams and Lohr A. Burkardt describes how aluminum can be used in compositions which have, "...use in cloud seeding."

Also in 1964, the Navy wrote, "The development of devices to produce hygroscopic nuclei is also continuing. Pyrotechnic mixtures and devices are being developed and tested which produce chlorides of lithium, magnesium, aluminum, and sodium. Trials have been made using hygroscopic liquids for the dispersal of warm fogs."

1964 was a busy year. This was also when the National Science Foundation (NSF) presented the work of a Dr. A.C. Zettlemoyer (1915-1991). Albert Zettlemoyer was an important figure in this development. Zettlemoyer discovered that small particles with both hydrophilic (water attracting) and hydrophobic (water resisting) sites were able to hold more water than uniformly hydrophilic particles. The NSF's sixth annual weather modification report explains:

"For a number of years, Albert C. Zettlemoyer has been conducting a study of the surface properties of nucleating materials and the physical and chemical characteristics which make them efficient nucleators. He has hypothesized that a good ice-nucleating agent, such as silver iodide, is primarily a hydrophobic material, and contains a percentage of hydrophilic areas dispersed about its surface. These hydrophilic areas form the nucleus around which water molecules may cluster and form centers upon which ice forms. According to the investigator, optimized nucleating efficiency occurs when 20 to 30 percent of the nucleating surface is covered with hydrophilic sites and the remainder of the material is hydrophobic. Based upon

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this hypothesis, the investigator has been successful in synthesizing several active nucleating materials possessing the proper hydrophilic to hydrophobic balance. Silicas, clays, alumina, bauxite, and magnesite have become good nucleating materials when suitably treated. In addition, polymer-coated and surface-esterified silicas have been prepared which have shown excellent nucleating properties in the cold chamber."

Prior to the above disclosure, Dr. Zettlemoyer was featured in an article which appeared in the American Chemical Society's Chemical and Engineering News. Dated December 9, 1963, the article reads:

"A new series of artificial nucleating agents for possible use as cloud seeders in cloud modification work can now be produced. Now that the surface chemistry of the most effective nucleating agent (silver iodide) has been recognized, it's possible to seek out other materials which nucleate or promote crystallization in gaseous and liquid media such as water clouds, according to Dr. A.C. Zettlemoyer of the surface chemistry laboratory of Lehigh University, Bethlehem, Pa."

"New and cheap cloud seeders (or nucleating agents), inorganic materials are used as substrates. Silicas, usually of colloidal size, are very desirable inorganic substrates, the Lehigh chemist finds. Other substrates can be used, but it is difficult to find cheaper ones than silicas, he says. These include carbon black, magnesite, limestone, dolomite, clay, bauxite, alumina, magnesia, and lime."



A.C. Zettlemoyer et al.

Image source: Chemical and Engineering News of the American Chemical Society

It looks like the above photo has been altered. Zettlemoyer's head is too big for his body and it is significantly bigger than those of the others standing next to him. Also, it appears that

Zettlemoyer's head is lit from the right while everything else is lit from the left.

Mr. Zettlemoyer was president of the American Chemical Society in 1981.

The Department of Commerce's National Oceanic and Atmospheric Administration (NOAA) issued a 1970 report titled "Proceedings of the Twelfth Interagency Conference on Weather Modification." Contained therein is a report titled "National Science Foundation Program in Weather Modification for FY 1970" by P.H. Wyckoff, the program director of the National Science Foundation's Atmospheric Sciences Section. Mr. Wyckoff writes, "A number of aluminas ranging from particle sizes of 1 to 0.05 microns have been plated with silver which has been converted to silver iodide by exposure to iodine vapor."

A little later he continues, "Professor L. Grant and Professor M. Corrin have jointly assumed responsibility as co-principal investigators for the nuclei simulation facility at CSU." Colorado State University (CSU) is where these experiments were conducted.

The 1971 U.S. patent #3,630,950 "Combustible Compositions for Generating Aerosols, Particularly Suitable for Cloud Modification and Weather Control and Aerosolization Process" by Henry M. Papee, Alberto C. Montefinale, Gianna L. Petriconi, and Tadeusz W. Zawidzki suggests using powdered aluminum in combination with an oxidizer whereby, "...a finely dispersed aerosol smoke consisting of moderately hygroscopic condensation nuclei, and a non-hygroscopic gas are simultaneously evolved, said gas acting to disperse said nuclei."

Of the handful of substances Papee et al tested, aluminum was found to be:

"...the most suitable metal since, besides being relatively cheap, it may be considered inert at room temperature (this characteristic is an important factor for safety in the preparation and transportation of the described compositions), it yields remarkable heat of combustion which favours a good continuity of reaction and a good aerosol dispersion. Moreover it is available on the market in the suitable purity and particle size."

A little later they write, "...we have found that aluminum sulfide, which forms during combustion of compositions containing powdered aluminum and sulfur, is a very good ice-nucleating substance."

During experiments detailed in a 1977 paper by J.H. Shen, K. Klier and A.C. Zettlemoyer, aluminum was used in combination with something called a phlogopite. These phlogopites are described as a new breakthrough. "Ice Nucleation by Micas" states:

"A fluorine mica, fluorophlogopite, has been found to produce higher bulk water freezing temperature than many other nucleating agents including the parent hydroxyphlogopite and

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even silver iodide. It is the most efficient catalyst yet found in this Laboratory.

The 1978 U.S. patent #4,096,005 "Pyrotechnic Cloud Seeding Composition" by Thomas W. Slusher and Nuclei Engineering, Inc. of Louisville, Colorado describes how aluminum can be used in compositions designed for weather modification.

In 1991, United States patent #5,003,186 "Stratospheric Welsbach Seeding for Reduction of Global Warming" was assigned to the Hughes Aircraft Corporation. The patent describes a method for dispersing particulates into the upper atmosphere in order to save us from global warming. The author David B. Chang suggests that aluminum oxide be used for this purpose. It reads:

"One proposed solution to the problem of global warming, involves the seeding of the atmosphere with metallic particles. One technique proposed to seed the metallic particles was to add the tiny particles to the fuel of jet airliners, so that the particles would be emitted from the jet engine exhaust while the airliner was at its cruising altitude."

The first mention of aluminum occurs in this passage:

"The method comprises the step of seeding the greenhouse gas layer with a quantity of tiny particles of materials characterized by wavelength-dependent emissivity or reflectivity, in that said materials have high emissivities in the visible and far infrared wavelength region. Such materials can include the class of materials known as Welsbach materials. The oxides of metal, e.g., aluminum oxide, are also suitable for the purpose."

The second mention of aluminum occurs a little later. It reads, "Another class of materials having the desired property includes the oxides of metals. For example, aluminum oxide (Al₂O₃) is one metal oxide suitable for the purpose and which is relatively inexpensive."

The Hughes Aircraft Corporation, this patent's assignee, was acquired by and is now integrated into Raytheon.

In the mid-nineties, Lawrence Livermore Laboratories scientists Edward Teller, Lowell Wood and Roderick Hyde wrote a series of papers calling for the spraying of megatons of aluminum to save us from global warming. The mid-nineties was when reports of chemtrail spraying in American skies began pouring in.

In their 1997 paper "Global Warming and Ice Ages," the Livermore Labs trio wrote:

"It has been suggested that alumina injected into the stratosphere by the exhaust of solid-rocket motors might scatter non-negligible amounts of sunlight. We expect that introduction of scattering-optimized alumina particles into the stratosphere may well be overall competitive with use of sulfur oxides; alumina particles offer a distinctly different environmental impact profile."

They continue to espouse the virtues of stratospheric alumina in the footnotes writing, "Alumina, like sulfate, is ubiquitous in the terrestrial biosphere, and its stratospheric injection seemingly poses no significant environment issues."

In his 2010 paper "Photophoretic Levitation of Engineered Aerosols for Geoengineering," top geoengineer David Keith suggests particles consisting of both aluminum and barium be used for the purpose of weather modification. Dr. Keith's proposed aluminum and barium particle sandwiches suggest that one chemtrail spray material may simultaneously serve the dual purposes of weather modification (aluminum) and atmospheric tracing (barium). Keith notes that these particles can be engineered to employ a layer of aluminum oxide to protect internal free aluminum from oxidation.

Also, in the 2010 feature documentary "What in the World Are They Spraying?," David Keith says:

"...on the environmental consequences of alumina in the stratosphere. There's a bunch of papers going back to the seventies that look at the radiative and ozone destroying properties of alumina in the stratosphere and those make you think it might be useful. Do this in just a jet in a very simple way. Make high quality alumina particles just by spraying alumina vapor out which oxidizes. So it's certainly in principle possible to do that."



David Keith

Image source: Harvard University

The aforementioned David Keith is a professor at Harvard University who is heavily invested in geoengineering. According to his Harvard bio:

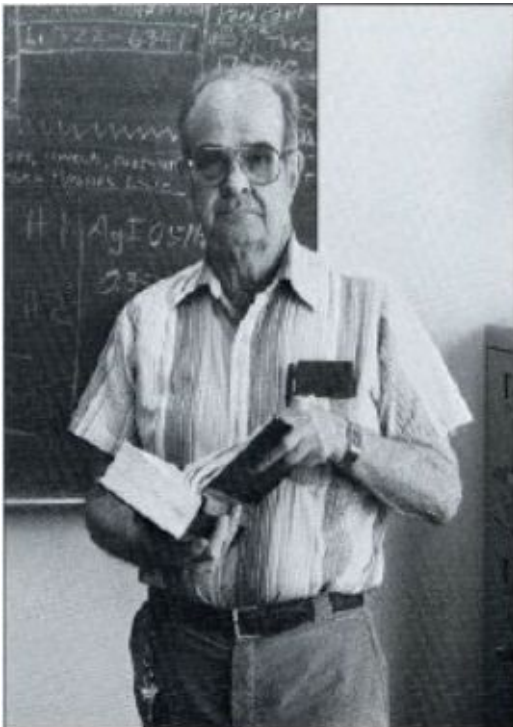
"David divides his time between Cambridge where he is Gordon McKay Professor of Applied Physics in the School of Engineering and Applied Sciences and Professor of Public Policy in the

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Harvard Kennedy School; and Calgary, where he helps lead Carbon Engineering a company developing technology to capture of CO₂ from ambient air."

Dr. Keith has received geoengineering grants from the Fund for Innovative Climate and Energy Research. According to the Stanford website, "Grants for research are provided to Harvard University from gifts made by Mr. Bill Gates from his personal funds." Yes, they are referring to that Bill Gates of Microsoft. We'll have more about William H. Gates III in chapter 9.

The April, 2012 edition of the *Journal of Weather Modification* featured a paper titled "A non-silver Iodide Cloud Seeding Nucleus - Al₂O₃." In this paper, the authors William G. Finnegan and Lee Ates propose a new aluminum oxide weather modification spray to replace the industry standard silver iodide.

If the reader will recall, William Finnegan (1923-2011) was also one of the co-authors of the aforementioned 1962 U.S. patent "Metallic Composition for Production of Hygroscopic Smoke." According to a *Journal of Weather Modification* obituary, Bill Finnegan worked at the China Lake Naval Ordnance Test Station where his work garnered him several patents. The focus of his career was that of applied research on the generation and characterization of artificial ice nucleants. After his work at China Lake, Mr. Finnegan became a professor at Colorado State University (CSU). After CSU and until his retirement, Dr. Finnegan worked at Nevada's Desert Research Institute.



William G. Finnegan

Image source: the *Journal of Weather Modification* / the Desert Research Institute

A famous PhD scientist by the name of J. Marvin Herndon has come forward with a convincing hypothesis that the most common chemtrail spray consists of coal fly ash. Coal fly ash is the ash which rises when coal burns. In two 2015 papers, Mr. Herndon writes that chemtrail spray collected from rainwater samples exhibits a chemical signature that is indistinguishable from coal fly ash. In the next chapter, we will have more about coal fly ash.



Dr. J. Marvin Herndon

Image source: UnderstandEarth.com

Ash is conductive. Ash may be suitable for use with electromagnetic energy. As shown in the photo below, ash spewing forth from an erupting volcano attracts lightning because of its conductivity.



Lightning and erupting volcano

Image source: Seventh National Science Foundation annual weather modification report

Photo credit: Sigurg Jonasson

If Mr. Herndon is correct, said fly ash would probably need to be reconstituted into a dense liquid. A dense liquid would work well within the context of the New Manhattan Project as a liquid could be more easily and efficiently transported and stored. When dispersed, a liquid would be preferable to a powder because liquids tend to clog-up the necessary tubing much

less. A final blast of flame might turn a dense liquid into tiny, finely dispersed particles as is done with silver iodide in the conventional weather modification industry. The aluminum, barium, and strontium showing up in the rainwater sample test results may be constituents of this coal fly ash reconstitute.

Particle size

This investigation has found that the aluminum particles dispersed as part of today's New Manhattan Project may or may not be in the nano-sized range. Many have feared that these particles are nano-sized because when nano-sized aluminum particles are inhaled, they are so small that they go directly into the blood stream and right into the brain causing a host of neurological disorders. Nano-sized particles are so small that one ingests them through one's skin.

In recent years, there have been massive spikes in the number of cases of diseases that have been found to be caused by aluminum toxicity (ch 8). This has provided support for the notion that these particles are nano-sized. As we will see, the literature pertaining to weather modification and the atmospheric sciences shows nano-sized aluminum particles only as a possibility, not a certainty. Particle size here refers to the particle's diameter.

By 1947 scientists had figured out that the best nucleating weather modification sprays consist of nano-sized particles. In an award-winning 1998 documentary film titled "Langmuir's World" pioneering weather modifier Bernard Vonnegut (1914-1997) said he found that the best silver iodide particle size for nucleation is about, "a hundredth of a micron." 1 micron equals 1000 nanometers, so .01 microns converts to 10 nanometers. Bernie Vonnegut should know. He was the guy who discovered silver iodide's usefulness as a nucleant, thus spawning the commercial cloud seeding industry. As noted in chapter 2, he was also a scientist who contributed greatly to the foundation of the New Manhattan Project. This particle size is probably what we see today in the conventional, regulated weather modification industry where airplanes spray silver iodide under regulatory supervision.

The big 1958 weather control report mentioned earlier states that the size of silver iodide particles used for weather modification ranges from 1 to 10 nanometers.

Different materials used as nucleants have different optimum sizes. The optimum size has historically been the most water absorbing size. The most water absorbing size is known as the most 'hygroscopic' size. The most hygroscopic particles of many different materials have been found to be nano-sized; others have been found to be micron-sized (1000 times bigger). It depends upon the material. Although the particles used today as part of the New Manhattan Project may not be tailored to be the most hygroscopic size, this is what chemists producing nucleants for weather modification have historically sought.

Today's New Manhattan Project may not be shooting for optimum nucleation. Rather, today's New Manhattan Project may be shooting for particles that are more receptive to this Project's electromagnetic energy. Although hygroscopicity does appear to be important, the nucleation capabilities of said particles may be a secondary or, in some cases, nonexistent objective. But, in order to determine the particle size of today's New Manhattan Project main chemtrail substance, it is important that we look at some historical examples of particles used in weather modification and the atmospheric sciences with an emphasis upon aluminum.

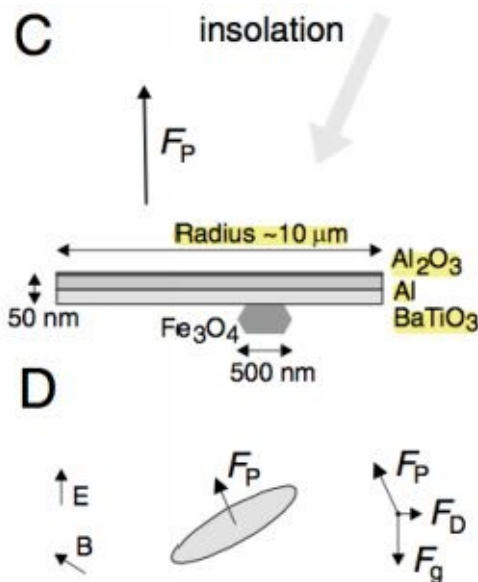
By 1963 the aforementioned Dr. A. C. Zettlemoyer concluded that, "...particle size of the

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substrates should range from 0.01 to 10 microns, and preferably between 0.3 and 1 micron..." That translates to 10 to 10,000 nanometers and preferably 300 to 1000 nanometers. His nucleation substrates included aluminum.

The authors of the seventh annual National Science Foundation weather modification report found the sizes of particles which nucleate. They write, "From a study of the distribution of sizes of 130 different nuclei, approximately 38 percent were found to be in the range of 0.4 to 0.7 micron, 29 percent in the range of 0.1 to 0.4 micron, 18 percent from 0.4 to 1.0 micron, and the remaining 15 percent larger than 1 micron." They are saying that the best nucleating particles are sized 400-700 nanometers.

NOAA's previously mentioned 1970 report "Proceedings of the Twelfth Interagency Conference on Weather Modification" noted that they had found effectively sized aluminum and silver particles in the .05 to 1 micron size range. A range of .05 to 1 micron translates to a range of 50 to 1000 nanometers.

In his aforementioned 2010 paper "Photophoretic Levitation of Engineered Aerosols for Geoengineering," top geoengineer David Keith proposes use of particles consisting of aluminum and barium sized at about 20 microns (20,000 nanometers).



David Keith's proposed geoengineering particle
Image source: National Academy of Sciences

We see from this investigation that aluminum particles ranging in size anywhere from 10 to 20,000 nanometers have been formulated or proposed.

A rough estimate of what Zettlemoyer & NOAA say are the most hygroscopic alumina particles puts the size at about 600 nanometers. But, as discussed earlier, hygroscopicity may not be what today's geoengineers are shooting for. This is why the results of this investigation into particle size are largely inconclusive. A lack of any known particle measurements means that we cannot be sure of the particle sizes.

It is also important to note that the particle sizes listed here are the initial dispersion sizes. These particles when they are dispersed may very well be nano-sized, but due to the fact that these particles may, as they float down to Earth, attach themselves to other ambient atmospheric

particles and/or each other, the particle sizes of these dispersed substances, upon reaching the ground, may be significantly larger. Conversely, relatively large particles may be dispersed which are designed to break up upon exposure to sunlight. The relatively large particles proposed by David Keith (20 microns), may be designed to break into nano-sized fragments. Sunlight tends to break small particles into even smaller ones.

We are probably being exposed nano-sized and non-nano-sized New Manhattan Project chemtrail particles.

Resonance frequency / the Welsbach effect

In order for the chemtrail sprays of the New Manhattan Project to be effective, the dispersed particles need to interact with the applied electromagnetic energy appropriately. As previously mentioned, when the aluminum particles of the New Manhattan Project are hit with the right electromagnetic energy frequency, they can heat up. The most effective heating frequency is known as a particle's 'resonant frequency.' Different materials have different resonant frequencies.

When large masses of atmospheric alumina particles are heated by certain frequencies of applied electromagnetic energy, they behave as something akin to a plasma. Particles heated in this way make other particles around them heat up (or resonate) as well. This is known as the 'Welsbach effect.' It is demonstrated in the mantle of a gas lantern. Applied energy makes the entire mantle light up not because the mantle is soaked with fuel, but because the particles comprising the mantle are resonating together. The New Manhattan Project can turn our atmosphere into a gigantic mantle with the chemtrail sprays comprising the mantle material and electromagnetic energy being the applied energy. The 1988 U.S. patent #4,755,673 "Selective Thermal Radiators" by Slava A. Pollack and David B. Chang describes how small particles may be energized in this fashion.

David B. Chang is one of the inventors listed on "Selective Thermal Radiators" and Mr. Chang is also the sole inventor noted on the infamous "Stratospheric Welsbach Seeding for the Reduction of Global Warming" patent. Hughes Aircraft is listed as the assignee on both.

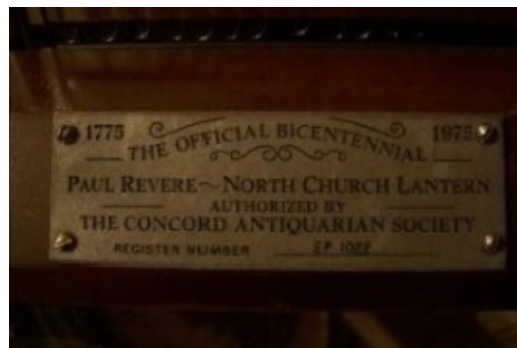
The former President and CEO of Hughes Aircraft was a man by the name of Lawrence 'Pat' Hyland (1897-1989). He wrote a 1993 autobiography (which appeared posthumously) titled "Call Me Pat." On this book's cover, Mr. Hyland is pictured lighting a gas lantern and thus producing the aforementioned Welsbach effect.



“Call Me Pat” book cover

Image source: the Donning Company Publishers

As one can see, the lantern Pat lights has an inscription. Although your author was initially unable to decipher this inscription, a resourceful commenter from TheIntelliHub.com going by the name of Tonya Gray provides us with the readable close-up posted below.



“Call Me Pat” book cover lantern inscription close-up

Image source: unknown

The inscription reads, "THE OFFICIAL BICENTENNIAL PAUL REVERE - NORTH CHURCH LANTERN AUTHORIZED BY THE CONCORD ANTIQUARIAN SOCIETY."

This lantern inscription means that this lantern is a replica of one of the two lanterns lit on the evening of April 18, 1775 to warn of British soldiers' advancing in boats across the Charles River into Cambridge, Massachusetts. We know it is a replica because in 1775 the Welsbach effect had not yet been discovered.

This is interesting because the Boston area has TONS of connections to the New Manhattan Project. Boston is home to the American Meteorological Society which is up to its eyeballs in this thing. Harvard University, the home of geoengineer David Keith, is in the area. Cambridge is home to research firm Arthur D. Little who produced the early New Manhattan Project experiments of Bernard Vonnegut et al.. Cambridge is also home to the former Air Force Cambridge Research Laboratories which has extensive ties to the New Manhattan Project. The

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Massachusetts Institute of Technology, which has been heavily involved, is also in Cambridge. What could be the significance of this, though?

Spray production

Is Monsanto producing today's chemtrail spray?

This book provides much evidence supporting the assertion that the New Manhattan Project is a Department of Defense (DOD) endeavor and from Monsanto's production of Agent Orange during the Vietnam War, we see a close relationship between Monsanto and the DOD. In fact, Monsanto's research director and later President and Chairman of the Board Charles Allen Thomas (1900-1982) was also a key scientist of the original Manhattan Project.

Charles Thomas got his master's degree in chemistry from the Massachusetts Institute of Technology, was a trustee of the Carnegie Corporation, worked for the RAND Corporation, and served as a member of the Corporation of the Massachusetts Institute of Technology.

During the time of the original Manhattan Project, Monsanto's research laboratory was located in Dayton, Ohio. Dayton is in close proximity to Wright-Patterson Air Force Base. This book provides many connections between Wright-Patterson and the New Manhattan Project (ch 4). Specifically, we know of studies performed at Wright-Patterson involving aluminum oxide nanoparticle spray animal testing (ch 8).

Although today Monsanto is mostly thought of as a genetic engineering company, it has historically been and still is a chemical producer. Production of genetically modified seeds has largely been done to sell their Roundup weed killer which is designed to be used in combination with their seeds.

Monsanto and their employees have historically demonstrated extreme callousness and disregard for our lives, the lives of other living things, and the environment. They would be the perfect company to produce the New Manhattan Project's chemtrail sprays.

Conclusions

We know they are spraying aluminum, barium, and strontium. These substances are consistently showing up in rainwater samples taken from chemtrail-laden skies all over the world. This work shows that there is a grand history of these types of substances being developed as material to be sprayed from aircraft for the purpose of weather modification. We see the jets high in the sky spraying us almost every day. It is apparent; with these substances we are being sprayed.

This is where we can gain direct evidence. If we can get chemical signatures of the metals showing up in rainwater samples (or possibly taken in other ways) that match any found or confiscated chemtrail sprays, then we may be able to establish direct evidentiary links between spray, sprayers and producers. These links may be the most important to future litigation. May this work help to establish a conviction. Our best works are like dirty rags.

In the meantime, can somebody do something to put an end to this nightmare so that we don't have to breathe this stuff in any more? Can we stop mass murdering Humanity now? Can we stop savaging our entire ecosystem? The evidence for these claims of mass murder and environmental devastation will be discussed in chapter 8.

Due to so many people's outstanding efforts, there is enough information available now that we shouldn't have to continue suffering. There is enough information available now for a

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congressional of Government Accountability Office investigation. The time for denial is over. Stop the spraying now.

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Chapter 6

C4

"Let me guess... You must be, Xerxes."

-King Leonidas from the movie "300"

The New Manhattan Project requires an incredibly huge command and control apparatus. Hundreds of airplanes need to be commanded. The ionospheric heaters need to be operated. Atmospheric conditions need to be monitored and analyzed. Computers are needed to assist throughout. Today's military refers to such an apparatus as C4: command, control, communications and computers.

The development of these types of technologies used in weather modification and the atmospheric sciences is well documented. It's way too big to hide. It's probably hiding in plain sight. This paper examines the historical development of these technologies, the currently known state of the art, and possible undisclosed operations. Specifically, this article examines the development and current status of C4 technology most probably used as part of today's New Manhattan Project.

Mapping the atmosphere

Before our atmosphere could be commanded and controlled, it was necessary to understand its composition and movements. Pertaining to this quest for understanding, this section recounts some of the most notable efforts.

The weather that we experience is vastly a product of planet Earth, its atmosphere, and the Sun. Our atmosphere consists of many layers. In ascending order, our atmosphere consists of: the troposphere (where we breathe the air and our weather occurs), the stratosphere, the mesosphere, the thermosphere, the ionosphere, and the magnetosphere. Phenomena in all of these regions, stretching to 32,000 miles above Earth's crust, have a direct effect upon the weather we see every day. Not only that, but the water, ice, volcanoes, calderas, and other features of the Earth's surface and sub-surface have direct relevance here. Because of this, in order to modify the weather, all of these regions must be understood and manipulated. As this chapter unfolds, we will see that this understanding has been achieved.

Recording atmospheric conditions was the first step in mapping the atmosphere and it has been largely a military exercise. In the 1830s, the U.S. Navy began recording meteorological data at their yards and from ships. Terrestrial weather data networks began in the 1840s with the development of the telegraph. As "The Weather Changers" by D.S. Halacy notes, "By 1850 there were 150 telegraph stations sending weather data to the Smithsonian Institution in Washington, a kind of central clearinghouse for weather information." Beginning in 1870, the U.S. Army Signal Office began providing daily weather reports and forecasts to mostly commercial and agricultural concerns. "The Weather Changers" continues:

"In 1891 the weather stations were transferred from the Signal Service to the Department of Agriculture, itself a new organization. In 1940, the National Weather Service moved again and changed its name. Its new home was the Department of Commerce and it was called the United States Weather Bureau. In 1965, the Department of Commerce created a new agency called Environmental Sciences Services Administration (ESSA), composed of the Weather Bureau and other government weather services."

ESSA later became the National Oceanic and Atmospheric Administration (NOAA).

The first scientific explorations of our atmosphere were conducted using balloons, dropsondes and sounding rockets. Weather balloons would be floated up to 100,000 ft. into the stratosphere where attached devices would record atmospheric conditions and then fall back to Earth to be collected. Later balloons used devices producing radio transmissions (radiosondes) to send atmospheric data back to meteorologists on the ground. Dropsondes are devices dropped from aircraft at altitude. A dropsonde will have a parachute that opens up so that the device can more slowly return to Earth as it gathers atmospheric data. Sounding rockets became prevalent starting in the mid-1940s. Rockets can go much higher than balloons or aircraft (200,000 ft.) and therefore gather higher-elevation atmospheric data; thus giving us a more complete picture of our atmosphere. This picture of our atmosphere would soon grow exponentially.

Rockets have also been used to produce smoke trails which are then recorded and analyzed as a means to determine atmospheric wind patterns. A 1976 report by the Air Force titled "Analysis of Smoke Trail Photographs to Determine Stratospheric Winds and Shears" recounts experiments employing rockets which left titanium chlorine trails.

Later sounding rocket experiments were designed to coordinate with ionospheric heaters in order to map the auroral electrojet. The auroral electrojet is comprised of the Earth's natural magnetic energy.

The Earth is a giant magnet. These strong magnetic fields enter and exit the Earth at the poles and surround the Earth in a toroidal fashion. Most of these later sounding rocket experiments were conducted near the Arctic Circle because at that high latitude, the auroral electrojet is at lower elevations and therefore more easily observed and influenced. These sounding rockets carried payloads consisting of chemicals used to enable observations of the auroral electrojet. When the rocket got to around its apex, the nosecone would explode and the chemical payload would be released. Scientists on the ground and in aircraft used photography and ground-based ionospheric heaters to make observations and thus map the auroral electrojet.

As one of the leaders in the field, T. Neil Davis wrote:

"Since 1955, various materials have been injected into the high atmosphere or the magnetosphere above for the purpose of creating observable markers or perturbations in the ambient medium and ongoing processes within it. Among the materials injected are sodium, trimethyl aluminate, aluminum oxide, nitric oxide, water, sulfur hexafluoride, strontium, cesium, lithium, barium and beams of energetic electrons. Injected in the proper fashion, each of these materials either emits in the visible band or interacts in some other way with the medium to produce visible emissions or visible modifications to natural emissions. Consequently, optical

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techniques have been extensively used to observe the effects of ionospheric releases. Other methods, including radio frequency, magnetic and in situ particle counting have been used to observe the injected materials or their effects."

"Through the use of chemical releases, it has been possible to investigate a number of quantities including high-altitude winds and electric fields, the detailed configurations of the geomagnetic field within the ionosphere and the magnetosphere, as well as the propagation of energetic particle beams and their interaction with natural and ionised constituents of the high atmosphere."

Neil Davis' informative and quite entertaining book "Rockets Over Alaska: The Genesis of Poker Flat" details how in the late 1960s and early 1970s the Defense Advanced Research Projects Agency (DARPA), the Defense Atomic Support Agency, and the Atomic Energy Commission jointly conducted a rocket launching program out of Poker Flat, Alaska; in the interior, near Fairbanks. It was supported by the General Electric Space Sciences Laboratory. The then Stanford Research Institute's Radio Physics Laboratory was heavily involved (this laboratory later became the source of a lot of HAARP research). Raytheon and many, many others were there. It was called SECEDE I & II.

At Poker Flat they had an ionospheric heater on site providing the electromagnetic energy. This was the ionospheric heater mentioned in chapter 3 which started out at Pennsylvania State, was later moved to Platteville, CO, and then came to rest at Poker Flat. Pennsylvania State University continued to operate this heater under the U.S. Navy.

As of 2006 (the year of his book's publication), Mr. Davis says that since 1969 there have been at least 100 chemical payload release rockets launched from Poker Flat. Poker Flat appears to be in use today. Similar operations by many different experimenters have been carried out all over the world. Worldwide, all time we're talking about dumping at least metric tons of all sorts of highly toxic materials into the atmosphere.

Mapping the atmosphere can be a dirty business. The aforementioned (ch 1) 1958 high-altitude detonations of nuclear bombs were conducted by DARPA (then ARPA) and allowed scientists to determine an outline of the Earth's magnetic field. The previously mentioned Jason scientist Nicholas Christofilos inspired and oversaw one of these programs called Operation Argus. A little later we will have more about the Jason group and their scientists.

The Department of Defense produced a very informative film about Operation Argus. It is currently available on YouTube. In the film, the navy rear admiral in charge of the operation called it, "...undoubtedly the largest scale single geophysical experiment ever programmed."

<https://www.youtube.com/watch?v=QUM3PDVnk7M>

There is also, believe it or not, quite a documented history of satellites dispersing chemicals for the purpose of mapping the upper atmosphere.

After balloons and sounding rockets, satellites have traditionally been used to quantify our atmosphere. Although the vast majority of satellites have been and are used for media telecommunications, there is a grand history of satellites being employed in weather modification and the atmospheric sciences. Over the years, the technology has gotten quite good. Historically, the space has been dominated by the National Aeronautics and Space

A textbook called "Satellite Technology: Principles and Applications" recounts some satellite technology firsts. It reads:

"The year 1959 marked a significant beginning in the field of satellite weather forecasting, when for the first time a meteorological instrument was carried on board a satellite, Vanguard-2, which was launched on 17 February 1959. The satellite was developed by National Aeronautics and Space Administration (NASA) of USA. Unfortunately the images taken by the instrument could not be used as the satellite was destroyed while on mission. The first meteorological instrument that was successfully used on board a satellite was the Suomi radiometer, which was flown on NASA's Explorer-7 satellite, launched on 13 October 1959. All these satellites were not meteorological satellites; they just carried one meteorological instrument."

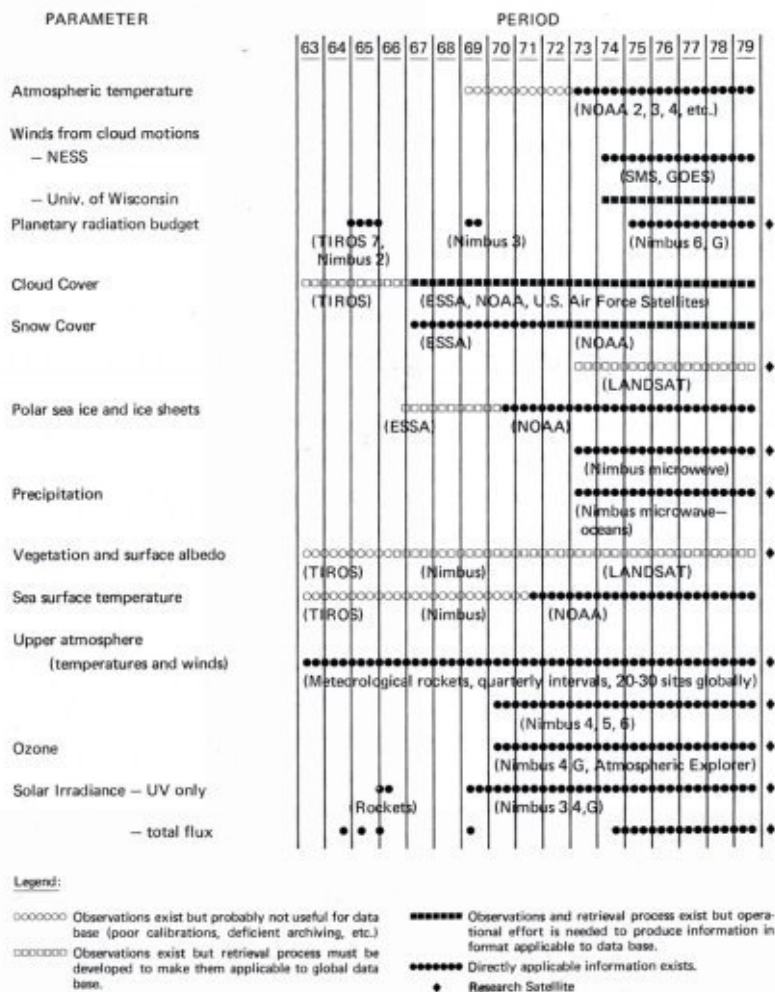
"The first satellite completely dedicated to weather forecasting was also developed by NASA [in conjunction with the Army, Navy, RCA, and the Weather Bureau]. The satellite was named TIROS-1 (television and infrared observation satellite) and was launched on 1 April 1960. It carried two vidcon cameras, one having low resolution and the other with a higher resolution. Both these cameras were adaptations of standard television cameras. Though the satellite was operational for only 78 days, it demonstrated the utility of using satellites for weather forecasting applications. The first picture was transmitted by the TIROS-1 satellite on 1 April 1960."

"Satellite Technology" continues:

"Major non-geostationary weather satellite systems that have evolved over the years include the TIROS (television and infrared observation satellite) series and the Nimbus series beginning around 1960, the ESSA (Environmental Science Service Administration) series beginning in 1966, the NOAA (National Oceanic and Atmospheric Administration) series beginning in 1970, and the DMSP (Defense Meteorological Satellite Program) series initiated in 1965 (all from the United States)."

Globally and domestically there have been many, many other satellite programs. The most useful overt weather satellites today are the GOES satellites.

The following is an illustration from the ICAS report 20b of July, 1977. It shows how the National effort in satellite remote atmospheric sensing between 1963-1979 evolved. As one can see, by 1980 Earth's atmosphere was pretty well covered. We will define and explore 'remote sensing' shortly.

Table 4. Availability of Satellite Data

US Climate Program Plan Illustration

Image source: the Interdepartmental Committee for Atmospheric Sciences

In order to monitor very high altitude atmospheric conditions, the National Aeronautics and Space Administration (NASA) launched and maintained early satellites such as the Eccentric Orbiting Geophysical Observatory, the Polar Orbiting Geophysical Observatory, the Atmospheric Structures Satellite, and later the Atmospheric Explorer satellite series.

Satellites have traditionally also been used as all-purpose remote weather data collection sites and pass-throughs. All types of weather data collected from ground stations, buoys, weather balloons, and aircraft, etcetera is sent wirelessly to satellites which then send the information on to ground-based data centers called 'Earth stations.' We'll have more about Earth stations shortly. Examples of this are pervasive throughout the weather modification literature. The earliest example of this as part of a weather modification effort yet found by the author is a 1974 report titled "Use of the ERTS-1 Data Collection System in Monitoring Weather Conditions for Control of Cloud Seeding Operations."

It is interesting to note that one of the most prevalent rockets used to launch satellites and in soundings of the auroral electrojet was the V-2; a Nazi rocket originally designed to carry munitions. The V-2 was probably the first sounding rocket used to help map the auroral

electrojet. The most remarkable feature of the V-2 was in its programmable guidance system; it was the first 'smart' rocket.

Have you heard of something called 'Operation Paperclip?' This was the classified program which, after WWII, brought Nazi scientists into the American scientific establishment. The most famous of these scientists being the man behind the V-2; Wernher von Braun. In his book "Hughes After Howard: The Story of Hughes Aircraft Company," Kenneth Richardson (a former Hughes executive) writes that another top executive at Hughes, Allen Puckett was asked to help select Nazi scientists for Operation Paperclip. Hughes appears to have been instrumental in the development of New Manhattan Project technologies. Now one begins to see where all this is coming from. We'll have more about Wernher von Braun and Operation Paperclip in chapter 11.

There was something called the V-2 Panel; later called the Rocket and Satellite Research Panel. This was a group of scientists formed at Princeton University in 1946 who were interested in high-altitude rocket research. Their activities largely revolved around modifying the V-2 for atmospheric sounding use. Out of 9 seats, the panel included the famous scientist J.A. Van Allen and three board members from General Electric. The board's chairman, E.H. Krause left in 1947 to go work on nuclear bomb tests. As we have seen, the New Manhattan Project connections to both G.E. and atomic bombs are extensive.

For more about the V-2 Panel, let us refer to Erik M. Conway's "Atmospheric Science at NASA: A History:"

"...this rather casual entity used many of the hundred or so V-2s assembled from parts collected in Germany at the end of the war for upper atmosphere research. They were primarily interested in investigating the ionosphere and the regions above it using new instruments and techniques that they devised for themselves. The members of the group were employed by a variety of universities, including Princeton, Johns Hopkins, Iowa State, and Harvard, and by military agencies, particularly the Naval Research Laboratory (NRL). Their funding came through various mechanisms from all three armed services, which sought better understanding of the upper atmosphere's radio characteristics to improve radar and radio performance."

By 1965, our nation had a proficient weather data gathering network. The Committee on Government Operations published a report outlining early weather data communication networks. On page 15 of "Government Weather Programs (Military and Civilian Operations and Research)" the authors write:

"Meteorological operations and services consist generally of: (1) observations of weather conditions, by both Government and non-Government observers, from land stations, ships, and aircraft, by visual and electronic tracking of balloons, by telemetry from balloons, rockets, and automatic buoys and observation posts, by radar, and more recently by satellite; (2) communication of weather observations to processing centers principally by the teletype networks of the Federal Aviation Agency, the facsimile network of the Weather Bureau, and both teletype and facsimile networks operated by the U.S. Air Force; (3) the analysis of observational data and the formation of forecasts, either at primary centers such as the National Meteorological Center and the Meteorological Satellite Data Processing and Analysis

Facility of the Weather Bureau at Suitland, Md. or the Global Weather Center at Offutt Air Force Base, Nebr., or locally at regional 'guidance' or 'area' centers as necessary for specialized users..."

These types of networks have only improved since then.

Over the years, many large-scale, international programs such as: the 1969 Barbados Oceanographic and Meteorological Experiment, the 1969 Tropical Meteorological Experiment, the 1974 GARP (Global Atmospheric Research Program) Atlantic Tropical Experiment, and the 1978 First GARP Global Experiment have been conducted. These coordinated programs were executed in order to gain deeper understandings of our Earth's atmospheric processes and involved all types of atmospheric monitoring activities, methods, and equipment. Participating Federal agencies included the usual suspects: the Department of Defense, the Department of Commerce, the National Aeronautics and Space Administration, the National Oceanic and Atmospheric Administration, the National Science Foundation, etc.. We'll have more about international participation a little later.

According to Erik Conway:

"The Joint Organizing Committee of GARP voted itself out of existence in 1980. Or, rather, voted to transform itself into the Joint Scientific Committee of the World Climate Research Program. GARP's goal had been twofold, to improve weather forecasting and to investigate the physical processes of climate; having done what seemed possible with the weather, its leaders turned to Earth's climate. Interest in climate research had grown throughout the 1970s, in part due to NASA's planetary studies and in part due to increasing evidence that humans had attained the ability to change climate by altering the chemistry of Earth's atmosphere. NASA would never play as large a role in the World Climate Research Program (WCRP) as it had in GARP. But its role in climate science would far surpass its role in weather forecasting."

This high-level shift from 'weather forecasting' to 'climate modeling' began during the 1960s. We will discuss climate modeling in detail shortly.

In 1977, the National Oceanic and Atmospheric Administration (NOAA) started writing about weather data collection networks in a different way. Under the heading of "Global Monitoring for Climatic Change," NOAA writes:

"The purpose of NOAA's Global Monitoring for Climatic Change (GMCC) Program is to provide quantitative data needed for predicting climatic changes. These consist of (a) dependable measurements of existing amounts of natural and manmade trace constituents in the atmosphere, (b) determination of the rates of increase or decrease in these amounts, and (c) possible effects these changes may have on climate. The present U.S. network of baseline observatories consists of four stations located at Barrow, Alaska; Mauna Loa, Hawaii; American Samoa; and South Pole, Antarctica. These stations are designed to supply information on atmospheric trace constituent concentrations using identical instrumentation and established measurement techniques. The GMCC Program is the U.S. portion of a planned world network of stations in the EARTHWATCH program of the United Nations Environment Program."

As evidenced by this passage, by this time the dialog changed from 'weather modification' and the 'atmospheric sciences' to 'climate change' and 'atmospheric chemistry.' 1977 was also the publication year of the aforementioned (ch 1) paper titled "On Geoengineering and the CO2 Problem" which employs the earliest mention of the word 'geoengineering' known to the author.

So who is in charge of mapping the atmosphere for today's New Manhattan Project? It may be the United Nations and their World Meteorological Organization (WMO).

A 2004 document titled "The Changing Atmosphere: An Integrated Global Atmospheric Chemistry Observation Theme" on the cover depicts an unmarked, all white jet airplane emitting visible trails and outlines a program for comprehensive and continuous global atmospheric observation. The authors of this report describe a system of atmospheric observation and analysis which would be sufficient for conducting today's New Manhattan Project. Their proposed system involves ground based radar, aircraft-based measurements, satellite-based applications and a comprehensive data modeling system. This document was produced by the International Global Observing Strategy (IGOS) which is run by the United Nations' WMO and the European Space Agency.

Here in the United States, the dominant atmospheric data collection organization is NOAA's National Centers for Environmental Information.

Remote sensing

Not to be confused with remote viewing, remote sensing is a primary way scientists gather atmospheric data. This chapter has touched on it already. It means to gather information about an object or objects from a distance. Remote Sensing started with photography. Although there are many other applications, today the term is used to describe the New Manhattan Project's necessary spectrometers (probably integrated into low Earth orbiting satellites) gathering detailed atmospheric data. While photographs only show reflected light, spectrometers are able to determine a target's chemical composition. This is the best way of determining the NMP's atmospheric concentrations of aluminum and circulations of barium. The earliest atmospheric sensing programs resembling today's technology were developed by the Defense Advanced Research Projects Agency (DARPA) along with the Atomic Energy Commission, the Air Force, and NASA in order to detect foreign countries' nuclear bomb detonations.

The type of remote sensor most effectively used in today's New Manhattan Project is something called an 'active remote sensing atmospheric spectrometer.' 'Active' means that the device sends out a signal which is reflected off the target and then bounced back to the device for analysis. This method allows atmospheric data to be collected at night and through cloud cover.

The weather modification and atmospheric sciences literature is replete with examples of remote sensing technology deployed from ground based systems and satellites. In the New Manhattan Project, both are most probably utilized.

As far back as 1960, ground based radar (a type of remote sensing) has been used in the context of weather modification programs. In a photo caption from their annual weather modification report of 1960, the National Science Foundation writes:

"University of Chicago research efforts to identify and isolate physical processes associated with the production of rain in summer convective clouds make use of the radar facility shown

below. *The AN/TPS-10 range and height finding radar is installed 11 miles northeast of West Plains, Mo. Among the studies carried on are those seeking to discover how natural processes are modified as a consequence of seeding clouds with silver iodide.*"

The first satellite based atmospheric remote sensing observations were produced in the early 1960s. They came in the form of black & white, low-resolution television images produced by the TIROS satellites.

Satellite remote sensing soon began to look like today's technology. In their 1972 report to Congress and the President, the National Advisory Committee on Oceans and Atmosphere wrote:

"Significant progress has been made in recent years in satellite technology and in remote sensing from aircraft and from the ground. NOAA's coming high resolution geostationary satellite and its developments in Doppler and optical radars and other remote-sensing techniques will make significant contributions to the advancement of the technology of weather modification. Satellites and remote sensing should be able to tell us something of the physical changes taking place within the seeded cloud and thus aid in the evaluation of field experiments."

In 1972, NASA reported that their Nimbus 5 satellite had, "...successfully met all its objectives. Included in the experiments was the first exploratory use of the microwave region of the spectrum for atmospheric sounding."

The National Bureau of Standards (now NIST) has been busily quantifying our atmosphere. Back in 1973, they were into some cutting edge remote sensing in the vein of the new 'atmospheric chemistry' term. Here is a passage from the 17th Interdepartmental Committee for Atmospheric Sciences report:

"Experiments are now being undertaken to determine the vaporization rate of a liquid into the dense gas phase and to study homogenous nucleation processes using laser light scattering techniques. Continuing research activities with application to the atmospheric sciences involve the physics and chemistry of the atomic and molecular constituents of the atmosphere, its pollutants, and their behavior and mutual interactions including thermodynamic and kinetic properties, gas phase chemical reaction rates, collisional ionization processes, infrared and microwave spectroscopy, absorption phenomena, gaseous dissociation, molecular bonding and multimer growth (such as water multimers in clouds). NBS [National Bureau of Standards] is involved in the development of tunable lasers, interferometric methods, spectroscopic tools, and analytic procedures for measuring atmospheric conditions and detecting and monitoring the concentration of pollutants, their size distribution and chemical composition. Radioactive sources and calibration standards are also employed to trace the flow of nuclear effluents in the atmosphere."

There is a pre-existing network of satellites which would be especially suited to the New Manhattan Project. Although this network bills itself as a global media telecommunications network, it would be relatively easy to covertly install the necessary equipment. The network is

called Iridium. It is particularly suited to the New Manhattan Project because it produces coverage, "...to all parts of the globe, including the polar regions." Global coverage is what this global weather modification project requires.

Let us refer once again to the textbook "Satellite Technology: Principles and Applications." On page 66 it reads:

"One important application of LEO [low Earth orbit] satellites for communication is the project Iridium, which is a global communication system conceived by Motorola. A total of 66 satellites are arranged in a distributed architecture, with each satellite carrying 1/66 of the total system capacity. The system is intended to provide a variety of telecommunication services at the global level. The project is named 'Iridium' as earlier the constellation was proposed to have 77 satellites and the atomic number of iridium is 77. Other applications where LEO satellites can be put to use are surveillance, weather forecasting, remote sensing and scientific studies."

The 2009 and 2010 U.S. patents of the same name "System and Method for Using Iridium Satellite Signals for Meteorological Measurements" describe how one or more satellites of the Iridium network can gather meteorological data and share that data with aircraft.

Not only is this Iridium constellation suitable for the New Manhattan Project's remote sensing needs, a 1996 Air Force document titled "Space Operations: Through the Looking Glass (Global Area Strike System)" describes the Iridium constellation as suitable for controlling the weather. Writing specifically of the Iridium constellation, the document reads, "Since water molecules are also known to absorb certain bands of microwave frequencies, it is also possible a properly designed HPMW [high-power microwave] weapon system could be used to modify terrestrial weather."

The New Manhattan Project C4 apparatus probably employs not only satellite-based remote sensors, but ground-based atmospheric remote sensors as well. The previously noted International Global Observing Strategy (IGOS) report of 2004 makes note of an in-use ground-based network of remote sensors employing, "...passive remote sensing spectrometers operating in various wavelength regions providing total column or low resolution vertical profiles of a number of atmospheric gases and aerosols; and active remote sensing lidar instruments for high-resolution remote sensing of atmospheric components."

A global network of capable ground-based atmospheric remote sensing facilities already exists. A group called the Network for the Detection of Atmospheric Composition Change (NDACC) is comprised of, "...more than 70 high-quality, remote sensing research sites for: observing and understanding the physical/chemical state of the stratosphere and upper troposphere" as well as, "...assessing the impact of stratospheric changes on the underlying troposphere and on global climate."

Earth stations

Satellites require ground-based locations known as 'Earth stations' to send and receive data. These are the giant satellite dish farms scattered around the country and the world. These stations send and receive data to each other as well. They are hubs for all sorts of satellite and terrestrial communications. Although most of their activities pertain to media

telecommunications rather than atmospheric data, any number of Earth stations may be involved in the New Manhattan Project. Digital data is digital data. A few locations are more probably involved than others.

The Canberra Deep Space Communications Complex may be involved. According to "Satellite Technology: Principles and Applications," it is run by NASA's Jet Propulsion Laboratory. NASA has been deeply involved in the New Manhattan Project. Not only that, but Canberra has been managed by those great progenitors of the New Manhattan Project; Raytheon. Further, they apparently had a big upgrade in the mid-1990s. The mid-1990s was when the chemtrails started. Further still, they have placed their antennas underground. As noted earlier, evidence from Project Sanguine suggests that the New Manhattan Project employs sub-surface antennas.

The Kaena Point Satellite Tracking Station may also be involved. This facility is run by our U.S. military. Evidence suggests that the New Manhattan Project heavily involves certain questionable portions of the American military. The authors of "Satellite Technology" describe Kaena thusly:

"The Kaena Point Satellite Tracking Station is a military installation of the United States Air Force (USAF) located at Kaena point on the island of Oahu in Hawaii. The station was originally established in the year 1959 to support the highly classified Corona satellite program. It is a part of the Air Force satellite control network responsible for tracking satellites in orbit, many of which belong to the United States Department of Defense."

Lastly, there is an area of the United States incorporating portions of Virginia, West Virginia, and Maryland called the United States National Radio Quiet Zone. This 13,000 square mile area has been officially designated an area where radio transmissions are highly restricted and mostly relegated to two government radio transmission facilities located within the exclusion zone: the National Radio Astronomy Observatory and the Navy's Sugar Grove station.

Among other restricted devices, it's a cell phone free-zone. This is done to ensure the quality of the radio transmissions to and from the two government communications facilities. The multitude of electromagnetic signals commonly seen outside of this exclusion zone could interfere with the communications of these two government facilities. For the two large facilities operating here, this exclusion zone ensures secure and high-quality communications.

As far as the New Manhattan Project is concerned, it may be advantageous to utilize either or both of the two communications facilities within the United States National Radio Quiet Zone. The incredibly technical and secret New Manhattan Project requires communications to be both high-quality and secure. As we have seen, the navy, which runs one of the installations in the exclusion zone, has one of the most extensive histories of involvement in New Manhattan Project technology development.

Aircraft atmospheric data reconnaissance

As part of the previously detailed atmospheric observational networks, the New Manhattan Project probably involves direct atmospheric sampling activities performed from aircraft. These activities include sampling of temperature, humidity, and atmospheric composition. As the airplane flies along through the atmosphere, specialized instruments collect atmospheric

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samples and take measurements. Direct atmospheric sampling from aircraft has historically been much more accurate than any remote sensing.

The aircraft performing this reconnaissance are probably the New Manhattan Project's proprietary fleet of chemtrail spraying jet airliners along with commercial passenger airliners.

The 2008 U.S. patent "Airborne Weather Profiler Network" describes how both commercial airliners and drones can use remote sensing technologies to gather and report detailed atmospheric data including particulate concentrations.

The weather modification literature provides us with information showing that commercial passenger airliners have historically been employed for the routine collection of atmospheric data. According to ICAS report number 20, as early as 1976, a system was being developed to, "...obtain real-time observations from airlines using the SMS/GOES satellites as a relay..."

Among other examples, National Science Foundation scientists published a 1983 paper detailing this. Under the heading of 'Automated Aircraft Reports' the authors write:

"Over 4,000 commercial aircraft reports are transmitted in real-time as part of the operational WWW [World Weather Watch] observational network. For FGGE, several special aircraft report programs supplemented these observations. The major special effort was called Aircraft Integrated Data System, or, AIDS. Approximately 80 aircraft (subsets of the DC-10, B-747 and Concorde fleets), equipped with AIDS, recorded winds and temperatures at spatial resolution of about 200 km along their flight path as functions of time and position. The data were recorded on cassettes which were processed later. The AIDS winds are obtained with the internal navigation system and are very accurate. A final set of 677,836 AIDS observations, or, roughly 60,000 per month, was compiled. Most of the reports were made at flight levels close to 250 mb (approximately 10 km); 747 Special Performance Aircraft reported at flight levels near 15 km and the Concorde fleet reported from levels up to 20 km."

"A second program, developed by the U.S. especially for FGGE, was the Aircraft to Satellite Data Relay (ASDAR). This automated system was installed in 17 aircraft (16 B-747 passenger aircraft and 1 C-141 cargo carrier)."

Collecting atmospheric data by use of commercial aircraft also makes sense in the context of the New Manhattan Project due to the fact that commercial airliners often fly at significantly lower altitudes than the NMP's chemtrail spraying proprietary aircraft. Thus, by the time the spray wafts down to the commercial airliners' altitudes, the spray is appropriately diffuse and ready to provide a more widespread and representative sample. If coverage is adequate, commercial jets need not go out of their way to collect a sample. If the equipment aboard these commercial jetliners has been collecting aluminum, barium and strontium samples, then these records may provide supporting evidence for possible future litigation.

International Participation

International cooperation has been extensive. Although America has captained The New Manhattan Project, it wouldn't be a global weather modification project without this cooperation.

In a 1965 report by the National Citizens' Commission on International Cooperation, the story of international cooperation in meteorology and weather control is well told:

"International cooperation in meteorology had its beginning in the middle of the seventeenth century. In 1654 the Florentine Academy of Science established a network of stations in ten European cities to make and report weather observations. While the network worked under crude conditions, it was the first international network. It lasted until 1667."

"Over the next two hundred years, there were other attempts to establish and maintain an international network of weather stations. Perhaps the most notable was the network established in 1780 by the Mannheim Meteorological Society. It comprised 39 weather stations stretching from Siberia to Massachusetts and from Greenland to the Mediterranean, and all observations were taken pursuant to uniform instructions and with standardized instruments. The most important contribution of the Society was the publication of twelve uniform volumes of extensive weather data for the years 1781-1792."

"The middle of the nineteenth century saw the first modern international cooperative effort in meteorology. In 1853 the Brussels Maritime Congress met, and an agreement was reached among the maritime nations to make regular observations of ocean weather from merchant vessels and to exchange these observations both in peace and war. The success of the Brussels Congress led to the convening of an International Meteorological Conference in 1872 and, a year later, of an International Meteorological Congress. These meetings led to the formation in 1873 of the International Meteorological Organization. Its membership was primarily European (the United States was also a member), and it continued until 1951. It devoted itself to the planning of networks to observe the surface weather and the upper air, to the standardization of meteorological instruments and techniques, and to the planning of special projects such as the International Polar Year Expeditions of 1882-83 and 1932-33."

"In 1951 the World Meteorological Organization (WMO) superseded the International Meteorological Organization. WMO is a specialized agency of the United Nations. Its membership is global. Today it comprises 126 nations. WMO provides a forum within which these nations can meet to coordinate their meteorological activities and to plan improvements in their meteorological services. It also provides training assistance in meteorology to the developing countries, prescribes schedules for the observation of weather and for the international dissemination of weather data, and establishes standards for meteorological equipment."

"Meanwhile, cooperation among the world's atmospheric scientists has been actively fostered by several non-governmental scientific societies - the International Association of Meteorology and Atmospheric Physics, the International Union of Geodesy and Geophysics, and the International Council of Scientific Unions (ICSU). The last-named served as the coordinating body for the remarkably successful International Geophysical Year, which contributed notably to a better understanding of the atmosphere."

"The Proposal for a World Weather Watch"

"On September 25, 1961, in an address to the United Nations President Kennedy advanced a program for the peaceful use [of] outer space. As one part of this program, he stated that the United States 'would propose cooperative efforts between all nations in weather prediction and eventually in weather control.'"

"On December 20, 1961, the United Nations, by resolution, called upon the WMO, in

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consultation with the United Nations Educational, Scientific, and Cultural Organization (UNESCO) and ICSU, to develop measures to improve weather forecasting capabilities, to advance our knowledge of the basic physical forces that affect climate, and to determine the possibility of a large-scale weather modification. WMO responded with the concept of a World Weather Watch. It would be a cooperative effort among the nations of the world to build a new international system for the complete surveillance of the global atmosphere and for the rapid dissemination of worldwide weather data. The Watch would rest on modern technology - such as the satellite, the electronic computer, and high-speed communications systems - as well as on the traditional technology of meteorology. On December 14, 1962, by a further resolution, the United Nations recommended that WMO develop the concept of a World Weather Watch in greater detail. It also invited ICSU to develop an expanded program of research in the atmospheric sciences to compliment the Watch."

"Since then the plan for a World Weather Watch has been under active development by WMO in consultation with its member states and their academies of science. Our own National Academy of Sciences has made a notable contribution to the effort."

"The United States has repledged its participation in the work of developing a World Weather Watch. On June 10, 1964, in a commencement address at Holy Cross College, President Johnson stated that 'we will move ahead with plans to devise a worldwide weather system - using the satellites and facilities of all industrialized countries. The space age has given us unparalleled capacity to predict the course of weather. By working together, on a global basis, we can take new strides toward coping with historic enemies of storm and drought and flood.'"

"On October 23, 1964, the President requested the Secretary of Commerce to bring the Federal departments and agencies that are concerned with international meteorological programs into closer consultation and coordination. The Interagency Committee for International Meteorological Programs (ICIMP) was formed in response to this request. Through ICIMP the federal departments and agencies are now formulating detailed plans for the United States participation in the World Weather Watch. Scientific advice for the research program has been provided by a special panel of the Committee on Atmospheric Sciences of the National Academy of Sciences."

The World Meteorological Organization continues to be the big dog in the space today.

The United States, Canada, and Mexico have been coordinating weather modification efforts for a long time. A 1978 report by the U.S. Congressional Research Service notes:

"The North American Interstate Weather Modification Council (NAIWMC) was organized on January 17, 1975, by representatives of the governments of several U.S. States and Canadian provinces and the Mexican Government. Its purpose is to coordinate and serve as a focal point for intrastate, interstate, and international weather modification activities. This would include research into weather modification, legislation and treaties governing weather modification activities, and public information activities as well as its coordination functions. Membership is open to any state or province of the United States, Canada, and Mexico."

This Council was, of course, geared towards the conventional cloud seeding industry.

Because the New Manhattan Project was developed during the Cold War, the weather

modification literature shows that proponents of these technologies stressed the importance of achieving such capabilities before the Russians did. Meanwhile, we were *sharing* weather modification technologies with the Russians. If we can be led to believe that a chemtrail is a contrail, then this duplicity makes perfect sense.

The U.S. Congressional Committee on Government Operations produced a 1965 report showing this cooperation between the U.S.S.R. and the U.S.. The report reads:

"A duplex 24-hour circuit directly linking the National Meteorological Center with a similar facility in Moscow, U.S.S.R., is provided in accordance with existing international agreements. It is capable of voice transmission as well as transmission of photo, facsimile, and telegraph signals."

During 1975 Congressional testimony, atmospheric scientist Dr. Currie Downie provided further evidence of this cooperation by stating, "We had a delegation of Russians over here not too long ago and there are some plans for a visit to their sites over there, their hail sites and other weather modification sites."

Atmospheric modeling

Atmospheric models are designed to predict the future. Values assigned to current atmospheric conditions are plugged into the model and the model presents what the model thinks will happen over the next hour, day, week, month, year, etc.. Longer term models are known as 'climate models.' When it comes to the use of atmospheric models in the context of the New Manhattan Project, scientists can foretell the effects of man-made atmospheric modifications such as spraying chemicals from airplanes and/or the use of electromagnetic energy. As we will see, there are many examples.

Atmospheric models require ultra-massive raw computing power, hence supercomputers have an extensive history of being used for atmospheric modeling. Supercomputers bring the atmospheric models to life. Just as it is not a coincidence that every aspect of the New Manhattan Project evolved together in a coherent chronological order, it is not a coincidence that supercomputers have evolved simultaneously with the development of atmospheric models. All these things are interdependent.

But, before the supercomputers came, there were atmospheric models. In this development, atmospheric models are the horse that has pulled the supercomputer wagon, so we will delve into supercomputing in the next section. For a bit of early atmospheric modeling history, let us again read from a passage in Erik Conway's "Atmospheric Science at NASA: A History." It all began in the late 1800s:

"The most effective promoter of dynamical meteorology, as the nascent discipline was called, was Vilhelm Bjerknes, founder of the Bergen School of meteorology and pioneer of the highly successful (but still not physics-based) system of air mass analysis. Bjerknes had contended that the physical laws by which the atmosphere functioned were already known, in the principles of fluid dynamics and thermodynamics. He gathered many converts, including the first person to actually try to calculate the weather, Lewis Fry Richardson."

Just as with the New Manhattan Project itself, things didn't really get going until the 1940s. A little later, "Atmospheric Science at NASA" continues:

"The development of the digital computer in the final years of World War II permitted the meteorological community to revisit numerical weather prediction. John von Neumann, an already-famous mathematician at the Institute of Advanced Studies in Princeton, had collaborated on the ENIAC computer project and in the process had developed the logical structure that eventually formed the basis of all stored-program digital computers. He sought funding for such a machine for use in scientific research. He had been introduced to Richardson's work by Carl Gustav Rossby at the University of Chicago during a meeting in 1942, and became interested in applying the digital computer to weather prediction in early 1946. After a meeting with RCA's Vladimir Zworykin and the head of the U.S. Weather Bureau, Francis W. Reichelderfer, and more than a little enthusiastic advocacy by Rossby and the Weather Bureau's chief of research, Harry Wexler, von Neumann decided to establish a meteorology project associated with the computer he was trying to build, the EDVAC."

The National Academy of Sciences went on to write:

"Charney, Von Neumann, and Rossby had demonstrated shortly after World War II that the mathematical equations describing the physical processes that determine the large-scale atmospheric motion could be integrated satisfactorily on an electronic computer by finite-difference methods. Phillips successfully used this technique in 1956 to reproduce the main features of the global wind systems from an atmosphere at rest. An avenue had been opened to explore in a systematic manner the large-scale fluctuations in the air motion and assess the consequences of either conscious or inadvertent human intervention."

The aforementioned 1945 "Outline of Weather Proposal" by Vladimir Zworykin (ch 1) was an early document propelling a global weather modification program based upon highly accurate computer models.

In the late 1940s, Jule Charney advanced the field by coming up with something called a 'barotropic model.' This type of model was later perfected by Norman Phillips in 1952.

In 1954, something called the Joint Numerical Weather Prediction Unit was established to serve the Air Force Weather Service, the civilian Weather Bureau, and the Naval Weather Service. At this Joint Numerical Weather Prediction Unit, Norman Phillips demonstrated the first general circulation model (GCM) to accurately replicate, "...the seemingly permanent, large-scale structures of the global atmosphere, such as the jet stream and the prevailing winds. Researchers in several places began to conduct general circulation experiments after Phillips's demonstration."

When these general circulation models began to be developed, man began to have a real understanding of Earth's atmospheric circulations.

The ICAS later wrote:

"The development of GCM's for climatic studies has proceeded mainly at five institutions. Two of the institutions are Federal laboratories: NOAA's Geophysical Fluid Dynamics

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Laboratory (GFDL) and NASA's Goddard Institute of Space Science. The others are NCAR [National Center for Atmospheric Research], the University of California at Los Angeles, and the RAND Corporation."

In 1958, the Travelers Insurance Company teamed up with the Air Force Cambridge Research Center to bring us a little something called "Studies in Statistical Weather Prediction." In this highly technical report, the authors write of their computer weather models. We'll have more about the Travelers Insurance Company in the next chapter.

In 1962, five authors including Yale Mintz published a RAND Corporation document titled "A New Rational Approach to Weather-Control Research." In it they write of, "...altering individual weather systems through the introduction of artificial energy sources directly into the atmosphere." As we have seen, injecting energy directly into the atmosphere for the purpose of weather control is a distinguishing feature of the New Manhattan Project.

The document continues a little later:

"The experiment would examine the numerical prediction and pick out a feature in space and time that he wished to modify - for example, a Pacific storm that produced heavy precipitation over Oregon - and that he wanted, instead, to redirect onto a more southerly course so that it would drop its precipitation on the California mountains. Having picked this case 'after the fact,' he would carefully examine the fields, time-step by time-step, going backwards, until he found one or more grid points in space and time where the 'trigger mechanism' hypothesis indicated the artificial energy source should be introduced."

A trigger mechanism is something written of throughout the weather modification literature. It refers to a point in space and time at which one may make a relatively small intervention in order to cause a chain reaction which in turn creates a significant impact upon the weather.

In 1963, the National Science Foundation (NSF) wrote of atmospheric models capable of demonstrating the result of injecting energy into the atmosphere. On page 25 of the NSF's 1963 annual weather modification report, the authors write, "Finally, although details are not available, mention should be made of the imminent numerical experiment of Smagorinsky and his associates for the STRETCH computer of the U.S. Weather Bureau." The NSF continues:

"It is clear that with numerical models of the kind just described, experiments could be performed that would demonstrate the result of either modifying the earth's surface in some specified way or of injecting energy directly into the atmosphere."

The 1967 National Science Foundation annual weather modification report afforded us an update on the general status of atmospheric modeling development. It states:

"Based upon satellite observations and world weather data, several computer models to simulate the motions of the earth's atmosphere on a global scale are now being constructed. Significant progress in formulating such models is being made at the National Center for Atmospheric Research, the Geophysical Fluid Dynamics Laboratory of ESSA, the University of California at Los Angeles with NSF support, and at the Livermore Laboratories of the

These computer models were developed under the Advanced Research Projects Agency's (ARPA / later DARPA) Distributed Information Systems program division.

In 1974, a paper appeared in the proceedings of the Fourth Conference on Weather Modification titled "A Numerical Simulation of Warm Fog Dissipation by Electrically Enhanced Coalescence" which outlined an atmospheric computer model which factors in artificial electrical influences. This research is especially significant because it formed the basis for future weather modification by atmospheric heaters including the New Manhattan Project's use of weather modifying electromagnetic energy.

From the mid-1970s to about 1990, the center of the National effort in atmospheric modeling shifted to Lawrence Livermore.

Lawrence Livermore National Laboratories (LLNL) has historically produced leading atmospheric models. For many years now, their Program for Climate Model Diagnosis and Intercomparison (PCMDI) has been producing cutting-edge atmospheric models. Specifically, the PCMDI describes their purpose as developing, "...improved and seamlessly interconnected methods for the diagnosis, validation and inter comparison of global climate models."

The 1992 document "AMIP: The Atmospheric Model Intercomparison Project" by the Program for Climate Model Diagnosis and Intercomparison speaks to model improvements as a result of ongoing experiments comparing 29 atmospheric models from all of the world's principle climate modeling groups. The findings were to be processed and archived at LLNL. In the 'abstract' section it states:

"Organized by the Working Group on Numerical Experimentation (WGNE) as a contribution to the World Climate Research Programme, AMIP involves the international atmospheric modeling community in a major test and intercomparison of model performance; in addition to an agreed-to set of monthly-averaged output variables, each of the participating models will generate a daily history of state. These data will be stored and made available in standard format by the Program for Climate Model Diagnostics and Intercomparison (PCMDI) at the Lawrence Livermore National Laboratory. Following completion of the computational phase of AMIP in 1993, emphasis will shift to a series of diagnostic subprojects, now being planned, for the detailed examination of model performance and the simulation of specific physical processes and phenomena. AMIP offers an unprecedented opportunity for the comprehensive evaluation and validation of current atmospheric models, and is expected to provide valuable information for model improvement."

As to the origins of the PCMDI, a little later this same document reads:

"... the Program for Climate Model Diagnosis and Intercomparison (PCMDI) was established at the Lawrence Livermore National Laboratory (LLNL) by the Environmental Sciences Division of the U. S. Department of Energy [DOE] for the purpose of increasing understanding of the differences among climate models. The support and implementation of AMIP quickly became a priority PCMDI activity. Since that time, substantial resources have been provided by the DOE for the support of AMIP, including the provision of computer time to

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participating modeling groups at the National Energy Research Supercomputer Center at LLNL. AMIP is also coordinated with the DOE Computer Hardware, Advanced Mathematics and Model Physics (CHAMMP) Program (Bader et al., 1992)."

The 1997 document "The PCMDI Software System: Status and Future Plans" by Dean N. Williams and the Lawrence Livermore National Laboratory sheds more light on Lawrence Livermore's Program for Climate Model Diagnosis and Intercomparison. It speaks to collaborations with the National Center for Atmospheric Research (NCAR) in Boulder, Colorado. It states:

"Long-Range Weather Prediction and Prevention of Climate Catastrophes: A Status Report," a 1999 Lawrence Livermore National Laboratory report by Edward Teller, Ken Caldeira, Lowell Wood, et al. speaks to big developments in 'global models.' The report states:

"The USDoE [Department of Energy] and LLNL [Lawrence Livermore National Laboratories], via their advanced Environmental Science and Computing initiatives, are attempting to close the resolution gap between the regional and global models by supporting the development of the next generation of very high resolution global models; LLNL's Atmospheric Science Division is currently using the NCAR (National Center for Atmospheric Research) CCM3 [Community Climate System Model] GCM as well as the NRL (Naval Research Laboratory) COAMPS [Coupled Ocean/Atmosphere Mesoscale Prediction System] Regional Prognostic Model for application studies in the area of global climate change and regional studies of the atmospheric transport and fate of hazardous materials. These models are being ported to the current ASCI [Advanced Strategic Computing Initiative] machines."

Today's geoengineers are probably using the Community Climate System Model 3.0 (CCSM3) or something like it. As evidence for this assertion, the May, 2005 document "Global Biogeochemistry Models and Global Carbon Cycle Research at Lawrence Livermore National Laboratories" by Ken Caldeira et al. makes note of a, "...full physical climate system (atmosphere-ocean-ice-land) model." They are writing about the Community Climate System Model 3.0 (CCSM3).

The 2006 document "Terrestrial Biogeochemistry in the Community Climate System Model (CCSM)" by Forrest Hoffman et al. makes note of the latest leading climate model and its producers. It reads:

"The Community Climate System Model Version 3 (CCSM3) is a coupled modeling system consisting of four components representing the atmosphere, ocean, land surface, and sea ice linked through a coupler that exchanges mass and energy fluxes and state [sic] information among these components. CCSM3 is designed to produce realistic simulations of Earth's mean climate over a wide range of spatial resolutions. The modeling system was developed through international collaboration and received funding from the National Science Foundation (NSF) and the Department of Energy (DOE) as well as support from the National Aeronautics and Space Administration (NASA) and the National Oceanic and Atmospheric Administration (NOAA). A portion of DOE's support for CCSM has been through SciDAC Projects, including the multi-laboratory Climate Consortium Project headed by Phil Jones and John Drake."

If you are wondering... yes, that is Phil Jones of Climategate infamy.

If you will recall, Climategate was the hacked email scandal that caught the people responsible for the IPCC's climate data with their pants down. Yeah, that was where they were caught explaining how they cook the data, keep opposing viewpoints out of the official discussion, block Freedom of Information requests, manipulate the peer-review process, and practice other decidedly unscientific activities. It appears that the spirit of the pre-scientific era of weather modification lives on.

Supercomputers

Supercomputers have historically been manufactured by corporations like: IBM, Cray, Control Data Corporation, Texas Instruments, Burroughs, and the Univac Division of Sperry Rand. Today's big dogs in the space are IBM and Cray.

Supercomputers by nature are very large. A supercomputer can range from a single machine about the size of a refrigerator, to a large room filled with scores of big, hot boxes. Over the years supercomputers have, of course, become much faster, but their size largely remains a constant.

The earliest examples of supercomputer atmospheric simulations were a product of nuclear bomb testing. In an interview conducted not long before his death, well known MIT meteorologist Jule Charney (1917-1981) spoke of the famous mathematician John von Neumann (1903-1957) working on atmospheric supercomputing in the mid to late 1940s. He said:

"...Zworykin [Vladimir] was then with GE . . . RCA labs . . . and, um, Zworykin was interested in the meteorological problem. And I think it very likely that through their friendship that von Neumann took up the meteorological problem as sort of par excellence a problem for a large computer. Um, but previous to that, he had become interested in hydrodynamical problems in relationship to the Manhattan Project and the design of, uh, implosion devices and such things. And later on I think he did some hydrodynamical work in connection with the H-bomb. And I know that . . . that when the Prin . . . the computer at the Institute for Advanced Study was completed, one of the first, uh, problems was a highly classified problem . . . it concerned the H-bomb."

The Princeton Institute for Advanced Study was where John von Neumann pioneered mathematical atmospheric modeling. The classified program Charney is speaking of here was probably a program designed to model the atmospheric dispersion of radioactive particles. Atomic bomb developers knew that radioactive particles were dangerous to the environment and Human health. They also knew that testing nuclear bombs (which was what they did before and after dropping two on Japan) creates lots of radioactive atmospheric particles. Therefore, they probably wanted a way to track the dispersion of said particles; hence von Neumann's early work in atmospheric modeling.

Observed atmospheric conditions on the day of the detonation such as temperature, pressure, humidity, and wind speed and direction would be entered into von Neumann's model. In this way, the project directors would get a good idea of which adjacent areas would be contaminated

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and (due to knowledge of the isotope half-lives) for how long. Von Neumann's pioneering work in this area led to more advanced atmospheric models running on supercomputers such as those in use today.

Founded at the site of an old WWII Naval air station, Lawrence Livermore Laboratories has been involved in supercomputing since their 1952 inception. In that year they purchased their first supercomputer; a Sperry Rand UNIVAC 1 delivered in April of 1953. In the early to mid 1950s, Livermore Labs was the premiere buyer of supercomputers. Let us refer to a passage from "The Supermen: The Story of Seymour Cray and the Technical Wizards behind the Supercomputer." It reads:

"For computer manufacturers the needs of the bomb builders created an incredible opportunity. Throughout the early and mid-1950s, Livermore and Los Alamos stepped up their computing efforts until a friendly competition formed between the two labs. They vied for prestige; they vied for funding; they vied for access to the first of every kind of computer. For both labs computers emerged as status symbols, much as they had for giant corporations such as General Electric."

Although others such as the National Center for Atmospheric Research (NCAR) and the Department of Defense were prolific supercomputer buyers, elsewhere in "The Supermen," Lawrence Livermore Labs is described as, "...the leader among industry users. When Livermore purchased a new machine, the other government labs took notice."

Others such as DARPA, the Department of Defense, and NASA have historically been supercomputer buyers and industry supporters. All these organizations have been deeply involved in New Manhattan Project technologies and atmospheric modeling has always been a supercomputer priority.

By the mid-1960s, supercomputers were standard equipment. The Committee on Government Operations tells the story in 1965:

"High speed digital computers have been used in meteorological data analysis and weather prediction for nearly 10 years. Until 1955 weather data, gathered daily from all over the world, were sorted and processed almost entirely by hand and then entered manually on charts. Furthermore, until recently the job of forecasting was largely a combination of the forecaster's experience, certain statistical relationships, and qualitative or semi qualitative physical reasoning. Today, a large portion of the routine data handling and processing is performed by computers, and certain types of weather forecasts are now produced automatically by these machines. Computers are also used extensively by certain of the Nation's atmospheric science research laboratories such as the Weather Bureau's Geophysical Fluid Dynamics Laboratory and the National Center for Atmospheric Research."

Through the early 1970s, supercomputer atmospheric modeling continued to develop. Author Lowell Ponte writes:

"Defense Department climate research coalesced in the early 1970s in a DARPA project called 'Nile Blue.' In fiscal 1972 the project had a budget of \$2.587 million to develop and

monitor computer 'models' of changes in world climate. For this purpose it was provided the most sophisticated computer yet developed, the 'ganged' ILLIAC IV system,..."

A little later Mr. Ponte continues:

"...Nile Blue changed its name to 'Climate Dynamics' and DARPA, under whose control it remained, announced that henceforth the program was completely open and unsinister. In 1973, in a seemingly unrelated event, Dr. Lawrence W. Gates announced that the Ames Research Center in California had just acquired a new ILLIAC IV 'ganged' computer from DARPA, which he would be using for world climate modeling. Dr. Gates is head of climate research at the RAND Corporation in Santa Monica, California. The RAND Corporation was established in 1948, at the beginning of the 'Cold War' between the United States and Soviet Union, to serve as a civilian intelligence arm of the Department of Defense. Now diversified, it still does classified military studies for the Pentagon. As a private organization, the RAND Corporation is not subject to the same degree of congressional scrutiny as the Department of defense."

"In 1972 congressional hearings before Senator Pell's subcommittee, the Defense Department said it was conducting no classified weather research. Climate research was unmentioned."

Today, most supercomputers are connected to each other via the Internet. It has been this way for a long time. The early phone and Internet connections (coupled with relatively glacial computers) were agonizingly slow by today's standards. Until the late 1980s, sending information between supercomputers was a laborious task. The authors from NCAR tell the story:

"NCAR's computers are used not only by scientists at the center but by researchers from across the country who need the most sophisticated computational resources available. Since the mid-'70s, they have been able to connect to NCAR's computers from their home institutions through telephone links, but this method has been frustrating and often unsatisfactory. Scientists have had a hard time learning the NCAR computer systems from their remote locations, and critical tasks such as editing their files over the remote links have been difficult. They have had to continually redial NCAR's computers to see whether their work was completed. If the job output was large, they have had to rely on the U.S. mails to send it back, because large data and graphics files were almost impossible to transfer using telephone links."

"This year all of that changed, thanks to an innovation known as the Internet Remote Job Entry (IRJE) system. IRJE is a method by which remote users of NCAR's supercomputers can use a networking system to submit jobs directly from their local computers and have them returned directly."

"Central to IRJE is the Internet, a collection of campus, regional, and wider-area computing networks that use a common protocol called TCP/IP. The National Science Foundation's 'network of networks,' NSFNET, is at the core of the Internet. It ties smaller networks to each other and to supercomputing centers including NCAR. Thanks to these connections and to NCAR's own satellite network, IRJE has been able to progress from a good idea to a working

"Virtually any atmospheric researcher in the country can now submit a job directly to NCAR's computers using simple commands. The off-site computer can be anything from a personal computer to a minicomputer or a mainframe, as long as it is linked in some way to an appropriate network. The researcher can sit at a desk and prepare a problem, send it to NCAR even from thousands of miles away, and get the results back automatically and quickly. He or she can edit files and view data output and graphics at the remote site. The technology by which this is done, developed by Britt Bassett of NCAR's Scientific Computing Division, is elegantly simple from the user's perspective. It requires very little knowledge of NCAR's systems, and it is 'invisible' to users, who are unaware of the maze of connections between them and the SCD computers."

"Today, virtually the entire research community has access to the IRJE. Consequently, university scientists can make progress much faster. The simplicity of the system allows them to concentrate on science by minimizing the need to learn new computer procedures and eliminating the time needed to track work's progress. Files as large as ten novels are routinely sent back and forth. Because such sizable amounts of work, including graphics, can now be delivered to the scientist quickly and easily, research problems that were not previously attempted off-site are done with ease. Coupled with the networks that have made it possible, the IRJE system marks the beginning of a new era for remote users of NCAR's computing facilities."

The Accelerated Strategic Computing Initiative (ASCI) at Lawrence Livermore National Labs has historically been at the forefront of atmospheric supercomputing. With its roots in Lawrence Livermore's extensive history of computer simulated nuclear bomb detonation and artificial intelligence experimentation, the ASCI evolved from the Defense Advanced Research Projects Agency's Strategic Computing Initiative. The ASCI began operating in the early 1990s.

"The History of the Accelerated Strategic Computing Initiative" prepared by Alex Larzelere for the Lawrence Livermore Lab outlines the ASCI's purpose. On page 185 the document states:

"Deep understanding and simulation will be essential as the U.S. and the international community develops new systems to monitor, analyze and predict climate change, the effects of climate change and the efficacy of climate change mitigation measures. This increased understanding will directly feedback into the DOE's [Department of Energy] - and others - energy development efforts: an integrated climate and energy system."

'Climate change mitigation measures' is probably code for the New Manhattan Project.

So what comprises today's New Manhattan Project supercomputing effort? Although NCAR and LLNL both have some of the world's fastest supercomputers, all the world's supercomputers have been connected via the Internet for a long time now. The supercomputing power available to the command centers of the New Manhattan Project is probably the sum of most of if not all of the world's supercomputers put together. Many other parties share that computing power, but there is probably still plenty left to run the NMP.

Letting the broader Internet and World Wide Web contribute to their computing power would

probably not be advantageous. Sharing computing power over the Internet is commonplace today. But the secret and high-tech nature of the NMP probably precludes broader participation because letting everybody share could create security and technical issues. Lastly, a supercomputer-only network makes sense because the deadly serious NMP demands a high level of security and professionalism which a network of institutionally owned and administered supercomputers affords.

The National Center for Atmospheric Research (NCAR) has opened a special supercomputing center called the NCAR-Wyoming Supercomputing Center (NWSC). Approval for the NWSC was secured in 2007, construction began in 2010, and operations began in 2012. NCAR is currently transitioning their supercomputing efforts away from their home of Boulder, Colorado to this new facility. The NWSC's supercomputing power is, of course, accessed remotely. The NWSC is dedicated to the study of "Earth system processes" including climate change and carbon sequestration. The NWSC is sponsored by the National Science Foundation. This facility may be instrumental to the New Manhattan Project.

The MITRE Corporation

Evidence suggests that under the Defense Advanced Research Projects Agency (DARPA), a corporation called MITRE has been in charge of the New Manhattan Project's systems architecture. Systems architecture refers to the organization and harmonization of all the different New Manhattan Project sub-operations such as: operation of the ionospheric heaters, control of the aircraft, collection of atmospheric data, satellite communications, etc.. MITRE can make all these things work together and create an elegant end-user experience to boot.



MITRE Corporation headquarters

Image source: the MITRE Corporation

Along with designing and building technical systems architecture, the MITRE Corporation of Bedford, Massachusetts designs and helps build military command and control centers. In fact, they have designed and helped build every major command and control center in America. From the National Military Command Center under the Pentagon to Strategic Air Command (SAC) in Nebraska to the North American Aerospace Defense Command (NORAD) facility in Cheyenne Mountain, Colorado, MITRE has built them all.

The MITRE Corporation has extensive involvement in just about every sub-operation of the New Manhattan Project. From satellite communications to atmospheric monitoring to remotely controlling fleets of airplanes to supercomputing to operating ionospheric heaters, MITRE can do it all. The New Manhattan Project is operationally right up their alley. So much so that it

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makes one wonder if the MITRE Corporation was created specifically to be the New Manhattan Project's development coordinator and technical manager. The MITRE Corporation is the only American corporation with the right skill set to build the systems architecture of the New Manhattan Project; probably the only one in the world.

Most of the information recounted here is contained within the pages of a 1979 book entitled "MITRE: The First Twenty Years." It was written and published by the MITRE Corporation. There may not be a single book more important to the history of the New Manhattan Project.

MITRE was founded in 1958 with about 500 employees from the Massachusetts Institute of Technology's Lincoln Laboratory to resolve a technical mess made by the previous administrators of a system called the SAGE Air Defense System.

The RAND Corporation, the Ford Foundation, and the Massachusetts Institute of Technology were disproportionally represented on MITRE's first board of trustees. Connections to the original Manhattan Project, Edward Teller, Rockefellers and Rothschilds are readily found.

The SAGE system was another tremendously huge covert effort involving radar, computers, command and control centers, and a fleet of some thirty unmanned, remotely controlled missile-like jet aircraft designed by Boeing to hit enemy bomber aircraft before they could reach American cities. This was all, of course, to keep us safe from the Russian nuclear threat. MIT and the Air Force Cambridge Research Laboratories founded the SAGE project. It dates back to a 1950 committee headed by an MIT professor named George E. Valley. One of the principal architects of this SAGE system was a man by the name of Jay Forrester. We will have more about Mr. Forrester later.

It is this SAGE system from which large portions of today's New Manhattan Project probably evolved. It is this SAGE system that has most likely served as the nucleus of the New Manhattan Project; passed on throughout the decades.

Over the years, MITRE has consistently developed many different air traffic control systems capable of remotely controlling large numbers of aircraft. In 1959, MITRE partnered with the Federal Aviation Agency to develop something called SAGE Air Traffic Integration (SATIN). According to a book commemorating their 50th anniversary, SATIN, "...was aimed at developing a single, unified system for managing all aircraft in the nation's airspace."

Later, something called Position Location, Reporting, and Control of Tactical Aircraft (PLRACTA) took shape. Let us reference a passage from "MITRE: The First Twenty Years:"

"In the late 1960s, the activities being pursued separately under CNI [Communications, Navigation, and Identification] and CASOFF [Control and Surveillance of Friendly Forces] were combined into a single advanced development program called PLRACTA, standing for Position Location, Reporting, and Control of Tactical Aircraft, headed by C. Eric Ellingson. PLRACTA's goal was to provide information exchange among a maximum of one thousand aircraft and other, ground elements of the control system."

PLRACTA later became known as Seek Bus, then later still as the Joint Tactical Information Distribution System (JTIDS). JTIDS is in use today. There is a JTIDS Wikipedia page.

https://en.wikipedia.org/wiki/Joint_Tactical_Information_Distribution_System

The New Manhattan Project probably utilizes an enhanced and customized version of the JTIDS system.

The NMP's air traffic control is probably operated out of North American Aerospace Defense Command (NORAD) in Cheyenne Mountain, Colorado. This location has been the most dominant North American air traffic controller and the site of intense MITRE activity over the years. NORAD is a joint U.S. and Canadian operation.



NORAD

Image source: North American Aerospace Defense Command

Separately, MITRE did the big study that provided a scientific basis for the Environmental Protection Agency's 1976 Toxic Controlled Substances Act. Before they produced that study, MITRE worked with the Department of the Interior's Office of Coal Research to produce a study about possible cleaner uses of coal. Not only that, but for the Interior Department, MITRE investigated methods for doubling or tripling coal production.

These facts are interesting because J. Marvin Herndon, PhD has come forward with the previously mentioned hypothesis that chemtrails usually consist of coal fly ash. Maybe MITRE and the Environmental Protection Agency (EPA) worked together to make sure that plenty of toxic and otherwise illegal coal fly ash was removed by government mandated coal fly ash scrubbers and therefore available as New Manhattan Project chemtrail spray. We know that government has been mandating the scrubbers. Personally, as noted in chapter 1, I can smell and taste chemtrails now and it smells and tastes like ash. Dr. J. is looking more correct all the time.

Since their founding and throughout the production of the New Manhattan Project, MITRE Corporation's world headquarters has been in Bedford, Massachusetts. This is very interesting because Bedford is in the Boston metropolitan area. As previously noted, the Boston metropolitan area has an abnormally high concentration of organizations involved in the development of the New Manhattan Project such as: the American Meteorological Society, Harvard University, the Massachusetts Institute of Technology (MIT), and many more. In order to produce history's largest scientific endeavor, it would be advantageous to have a community of some of the world's top academic, research, and development institutions located within a 15 mile radius; all answering to MITRE the coordinator. The Boston area was the New Manhattan Project's developmental epicenter and MITRE was probably the NMP's development coordinator.

Once this Project became operational, it would be advantageous to retain the maintenance

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and support services of the people that designed and built it. It's like buying a brand new car from the dealer and getting premium factory service. Doing it this way makes things as easy as possible.

As they are an ongoing concern, the MITRE Corporation probably continues to manage the systems of the New Manhattan Project to this day. They've been sucking up our taxpayer dollars this whole time. Now, where is our congressional investigation?

Gordon J.F. MacDonald

None other than the aforementioned Gordon J.F. 'How to Wreck the Environment' MacDonald (1930-2002) was a MITRE Corporation chief scientist, served on their board of directors, and later became a trustee. MacDonald was deeply involved in weather modification and the atmospheric sciences. He knew the famous Manhattan Project scientist James Conant well. He knew Edward Teller and Bernard Vonnegut and worked with many other scientists mentioned here. He worked for the Carnegie Institution as well as NASA. He was involved in the wartime rainmaking operations over North Vietnam. He got his PhD in geology at Harvard, taught geophysics at MIT and had a hand in creating the aforementioned EPA. He has connections to the Central Intelligence Agency and Al Gore (ch 10). As a science advisor to president Johnson, MacDonald co-authored the aforementioned (ch 1) 1965 document titled "Restoring the Quality of Our Environment" which simultaneously established the modern theory of man-made global warming and the Solar Radiation Management geoengineering thesis.

In her book "The Pentagon's Brain," Annie Jacobsen writes:

"By 1960, he [MacDonald] said, 'I was becoming more interested in the atmosphere, working on climate problems.' The University of California, Los Angeles, was developing a program in atmospheric science, and he accepted a position there as director of the Atmospheric Research Laboratory. At UCLA he found himself working on weather and the ionosphere. This led him to become interested in climate control."

Jacobsen continues:

"At the same time, in his classified work, Gordon MacDonald was becoming deeply interested in weather modification. He told the Journal of the American Statistical Association: 'I became increasingly convinced that scientists should be more actively engaged in questions of environmental modification, and that [the] federal government should have a more organized approach to the problem. While research could take place in both the public and the private sector, the government should take the lead in large-scale field experiments and monitoring, and in establishing appropriate legal frameworks for private initiatives.'"

He says that he met with Al Gore during the Carter administration to discuss what should be done about global warming. During a 1994 interview he said:

"Raith Pomerantz (?), who was then head of Friends of the Earth, saw it. He was an active environmental lobbyist. And called me up and said this was a problem that he felt was very

serious. *And first he wanted to understand the science, and we spent many, many days discussing the science. And then he said, 'What I want to do is for you to brief as many people in Washington as we can get to, to tell them about this problem.' And so as an environmental lobbyist he had many, many contacts on the Hill in the Carter Administration, with the Carter people. Now so early on I started to meet with people like Tim Worth, Al Gore."*

He said that Gore, "...quickly understood it." MacDonald says he went on to testify before the Senate Energy Committee in 1987 about how America, as a global warming mitigation effort, needs to shift more to natural gas usage. He says that before the committee, he also advocated for a 'carbon tax' and conducted a detailed discussion about how that would work.



Gordon J.F. MacDonald
Image source: the National Academy of Sciences
Photo by Roy Porello

It is interesting to note that not only was Mr. MacDonald a science advisor to multiple presidents and a member of a slew of top-shelf weather modification committees, but that he was also a very active member of something called JASON. Evidence suggests that Jason worked on developing the New Manhattan Project under DARPA.

JASON

Jason is an independent group of scientists that have historically done contract work mainly for DARPA, but have also done work for other New Manhattan Project progenitors such as: the CIA, the Navy, NASA, the National Science Foundation, the Department of Energy, and the MITRE Corporation. Jason has historically employed the best scientific minds. They have a history of solving the problems nobody else can. Starting in 1960, all the available Jason scientists have gathered annually (usually in the Summer) to tackle scientific problems brought to them by their sponsors.

The original Jason scientists and those that went on to run Jason for many years were

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comprised mostly of men whom had worked on the original Manhattan Project and their students. These were famous scientists like: Edward Teller, John Wheeler, Hans Bethe, Murph Goldberger, Freeman Dyson, Val Fitch, Luis Alvarez, Pief Panofsky, Bill Nierenberg, Ed Frieman, Murray Gell-Mann, Keith Brueckner, Marshal Rosenbluth, George Kistiakowsky, Charles Townes, and Richard Garwin. Jason's first sponsor was DARPA's first chief scientist and the first director of Lawrence Livermore National Labs; Herb York.

In 1973 Jason moved their operations to the headquarters of the Stanford Research Institute (SRI) in Menlo Park, CA. The Stanford Research Institute has contracted with Jason extensively and SRI has done much work in the vein of the New Manhattan Project.

In 1977 Jason formed a group to study Earth's climate. As described by the author of the definitive book on Jason, Ann Finkbeiner, our friend Gordon MacDonald and a man by the name of Henry Abarbanel served as, "...more or less the group's constant core." Other regular members included: William Nierenberg, Ed Frieman, and Freeman Dyson. Dyson reportedly says that the first climate study had no sponsor and that it was done with 'free money.' Finkbeiner writes that, "Jason decided to study the subject on its own." 'Free money' sounds like good work if you can get it.

In the spring of 1977, the Jasons convened a two-day meeting at the National Center for Atmospheric Research in Boulder, Colorado. At this meeting, participants from government and academia reportedly had a fear mongering session about the non-existent threat of global warming due to man's carbon emissions. The product of this meeting was a climate model, made by Jason, which showed increased global temperatures correlated to increases in atmospheric CO2.

In 1979, Jason climate group regular Ed Frieman left his other job at Princeton and, according to Finkbeiner, "...became the head of the Office of Energy Research at the newly created Department of Energy. For the next two years he commissioned Jason to do a series of studies on the relationship between carbon dioxide and global warming."

In 1981, Jason left their offices at the Stanford Research Institute and made a new home at facilities owned by none other than the aforementioned MITRE Corporation in McLean, VA. Will coincidences never cease?

After the initial flurry of Jason climate studies in the late 1970s, Jason did not give the issue much attention for many years. Then in 1986, Jason, led by Gordon J.F. MacDonald, began advising the Department of Energy in regards to their new, interagency Atmospheric Radiation Measurement (ARM) program. The Atmospheric Radiation Measurement program involved the establishment of a comprehensive array of atmospheric monitoring equipment and, secondly, bringing the collected measurements into a computer model. ARM was created in 1989 and continues to this day.

Command Centers

Like classical music conductors, today's top geoengineers must bring together all the members of their orchestra. This Project requires a small group (or groups) of people running it as a team. These teams require facilities capable of running the New Manhattan Project. There aren't too many known locations in the country or in the world that might qualify.

Evidence and logic suggest that the command and control centers of the New Manhattan Project employ large holographic displays. These displays probably produce very realistic three

dimensional imagery in a theatre-in-the-round type of setting viewable by groups of lead scientists and others. This would be the best way to display the information and allow for discussion. Technicians can more easily respond to orders from the lead scientists and lead scientists can more easily respond to others when they are all looking at the same thing.

A NMP command center probably looks a little something like this:



Theater in the round

Image source: Wikimedia Commons

The background walls would be plastered with computer screens showing all kinds of relevant information. In the rows would be comfortable recliners with power and data connections for laptop computers. In the center, holograms would appear.

It is not so far off to think that the command centers of the New Manhattan Project may be employing holograms. Holograms go all the way back to 1948 with Dr. Dennis Gabor (1900-1979) and his Nobel Prize. Holographic movies have been around since the 1960s.

In "The Electronics Research Center: NASA's Little Known Venture into Aerospace Electronics" by Andrew Butrica, PhD, the author writes of holographic displays being developed at NASA's Cambridge, Massachusetts Electronics Research Center in the late 1960s. This facility today is known as the John A. Volpe National Transportation Systems Center.

As early as 1964, our Air Force was recreating atmospheric volumes in a holographic fashion. Page 49 of the National Science Foundation's seventh annual weather report states, speaking of their laser disdrometer, "By reconstructing the sample volume in three dimensions from the two-dimensional diffraction pattern film record, called a hologram, the size, shape, and relative position of each particle in the original volume are determined."

In the Summer of 1968, as previously noted, the NSF reported the Bureau of Reclamation's successful operation which produced three dimensional atmospheric models. Any image that can be stored and reproduced in three dimensions can be reproduced as a hologram.

Many years ago our Army reported that they were collecting atmospheric data in a fashion that would lend itself to being displayed on a holographic display. Way back in 1975 the Army reported:

"...developments in microwave radar, laser radar, passive radiometry, and acoustic sounding have demonstrated that it is now feasible to consider real-time atmospheric sensing systems for

the combat Army. Remote sensing permits the measurement of relevant parameters of the atmosphere in one, two, or three spatial dimensions, all as a function of time,..."

The 1998 Army document "3D Holographic Display Using Strontium Barium Niobate" speaks to a breakthrough ability to both record and produce very realistic holographic imagery in real time and in free space. To produce such holographic imagery, a barium or strontium mist would not be necessary as the barium and strontium mentioned here actually refers to crystals used as part of the projector. This appears to be the technology in use today as part of New Manhattan Project command and control centers.

Now we get down to the last locked dungeon door. It's dark and dank. Green slime and black grime covers the huge blocks of stone walls. A rat scurries along in the corner. The smell of rotting flesh permeates the air. We can hear the low growling, the howls of pain, and the insane, echoing laughter.

Where are they? Where have our tormentors been hiding? Who has been laughing at our pain?

Let us use our key that has been fashioned through so much scratching and clawing research. Now we slide the key into the lock, noting the exact fit. It turns snugly. The portal is open. There is no going back now. The spirits beckon us. Let us pass from ignorance into wisdom.

Conclusions

When searching for the large scientific facilities necessarily housing the people and equipment running the New Manhattan Project, there aren't too many locations in the world that have anything resembling the massive technological resources necessary. As some of the very few locations capable, the evidence leads firstly to Lawrence Livermore National Laboratory (LLNL) and secondly to the National Center for Atmospheric Research (NCAR) in Boulder, Colorado. There may be a third command center in the East.

LLNL has a grand history of conducting classified scientific projects. LLNL has been deeply involved in the design and manufacture of nuclear weapons. Nuclear weapons were originally produced by the first Manhattan Project. Strangely enough, as we have seen, nuclear weapon development largely morphed into the atmospheric sciences.

The Program for Climate Model Diagnosis and Intercomparison (PCMDI) at Lawrence Livermore Labs is probably running the New Manhattan Project's atmospheric modeling efforts. The PCMDI was founded by the Department of Energy who has extensive ties to the New Manhattan Project.

The Accelerated Strategic Computing Initiative (ASCI) at Lawrence Livermore Labs is probably running the New Manhattan Project's supercomputers. The ASCI evolved from a Defense Advanced Research Projects Agency (DARPA) program. It looks like DARPA has been running the New Manhattan Project all along.

MITRE probably designed and built LLNL's New Manhattan Project command center.

LLNL's collaborations with NCAR are incriminating because these investigations have shown that NCAR has been instrumental in the development of the New Manhattan Project as well. NCAR has always had similar equipment and conducted similar activities to those of LLNL. The main difference between LLNL and NCAR is that NCAR specializes in the

NCAR's location near the geographical center of the contiguous United States would provide a more convenient location for geoengineers who live in the central regions of the country. NCAR is located on a mesa at the foot of the Rockies. The facility is protected by being deeply embedded in the Earth; much like NORAD which is further south and built into the same geological formation.

For this reason of convenience, there may also be a third C4 center in the East. The prime candidate is Wright-Patterson Air Force Base. As these investigations have shown, Wright-Patterson has some of the most extensive ties to the New Manhattan Project.

Now we have some idea of from whence the New Manhattan Project is being conducted. Somebody is doing it. At least one C4 center has to be somewhere.

The results of this investigation may be very important to potential future litigation. If we know where the workplaces of the people running the New Manhattan Project are located, then we can legally and lawfully shut those locations down. If we successfully shut one or more of these centers down, then we may also consequently gain access to treasure troves of hard evidence.

It appears that the entire scientific apparatus supposedly operating to monitor and analyze anthropogenic climate change is in fact the practicing apparatus which monitors, analyzes, commands, and controls the atmosphere for the New Manhattan Project. These systems evolved from the New Manhattan Project's roots in weather modification. These systems were created in chronological lock-step with the New Manhattan Project's other developments. It's all much too big to hide. A cover story as big as the Project was created. These people have already been caught lying during Climategate.

Guess what... the establishment lied to us. The theory of man-made global warming is designed to sell an incredibly gigantic, mass-murderous rip-off. It's designed to make us all accept a lower quality of life. It's much bigger than the oil companies. It is a justification for the New World Order and population reduction. If you aren't aware of this, please come to your senses, just as your author has, and admit we were wrong. Let's just admit it so that we can better shut down the New Manhattan Project and move on with life. We cannot live under this.

The theory of man-made global warming is cut whole cloth from the establishment. They have crafted an exquisite deception for us. Most people have only adopted it because of unbelievably subversive and immense public relations campaigns. See chapter 10. We have been ruled by the most devilishly cunning minds; have no doubt about that, my friend.

Earth's climate fluctuates naturally. It always has. It's driven by the Sun. It's not our responsibility.

No, man is not significantly changing the climate by emitting CO₂, but with the New Manhattan Project he most certainly is. Their cover story for this monstrosity is false. Please see through this deception and help stop the spraying now.

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Chapter 7

MOTIVES

A key question in many investigations is: Who benefits? In Latin we say: Cui bono? So, as we continue to investigate chemtrails and geoengineering, let us enquire as to who benefits from this New Manhattan Project. What might be the advantages of conducting a global weather modification project such as this? This chapter examines the New Manhattan Project's motives.

It is incredibly bold to routinely dump megatons of toxic metals into our atmosphere. Committing crimes of this magnitude, openly in the sky above us, could very well lead to new Nuremberg trials. Considering the level of risk involved, what might be the rewards for these outrageous crimes against Humanity?

For the worldly, the potential rewards are great.

Weather's effect upon business activity has been studied extensively at the highest levels since at least the mid-1950s. In 1971, an organization called Research Applied to National Needs (RANN) was created within the National Science Foundation to study the economic benefits of weather modification. The weather modification literature is replete with examples of favorable cost to benefit ratios.

From agriculture to energy to transportation to leisure to construction to just about every business activity on the face of the planet, weather has a direct effect upon operations. American business activity sensitive to weather is well understood and measured in the trillions of dollars annually.

The multi-billion dollar weather derivatives and catastrophe reinsurance markets rise and fall with the weather. Outcomes of wars are heavily dependent upon weather. The politics of government water distribution has also been hotly contested over the years and directly affected by the weather. Don't forget about all the hydroelectric power generated by rainfall.

Maybe a better question is: Who doesn't benefit? Although we the people are surely not benefitting, this is the biggest scientific endeavor in Human history and weather influences just about every aspect of life. It is literally the air we breathe. The corporate beast wants to own it.

Many stand to gain.

The Geoengineers

The geoengineers want their rewards. They are participating in an industry set to become very prosperous if geoengineering becomes generally accepted. Their spokespeople are here to sell the spraying program which has already begun. It makes perfect sense in our upside-down world.

There are thousands of people calling themselves geoengineers. In one way or the other, they are all heavily invested in geoengineering. Some may own their geoengineering companies

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outright. Some may own financial products like stock or stock options. Some may stand to gain from patent royalties. Some may just be interested in getting big paychecks, bonuses, and retirement benefits. If geoengineering becomes a generally accepted practice, the reputations and fortunes of all those involved will be positively reinforced.

Weather and war

It is far from a coincidence that the New Manhattan Project was built and has been carried out by military agencies. They have been there all along. They are there because weather has determined the outcomes of wars innumerable times.

An author named Robert Child wrote a short 2012 ebook titled "Weather and Warfare." For the opening section, Mr. Child writes a paragraph that gives many examples of weather affecting war. It reads:

"In 1588 more than half of the Spanish Armada, on its way around Northern Britain, was destroyed by storms in retreat back to Spain. Napoleon's attack on Russia was stopped cold by winter weather, as was Hitler's siege of Leningrad. In WWI, it was all-quiet on the western front during mud season. The miracle at Dunkirk took place under cover of heavy fog, the Japanese attack on Pearl Harbor was launched under cover of Pacific storms and the D-day invasion of Normandy was launched based on the most critical weather forecast in history."

During the late 1960s and early 1970s, in southeast Asia our U.S. military conducted weather modification operations under something called Operation Popeye. It involved spraying silver and lead iodide out of aircraft (and thereby inducing rain) in order to flood out the enemy's transportation routes.

Weather and war recalls Secretary of Defense Cohen's 1997 remarks at the University of Georgia where he spoke about how one can, "...alter the climate, set off earthquakes, volcanoes remotely through the use of electromagnetic waves..." Now that sounds like today's New Manhattan Project!

Although today we have what appears to be military groups that have embedded themselves illegally into our otherwise constitutional Republic carrying out the New Manhattan Project domestically, weather control systems employing New Manhattan Project technology are probably also used against foreign enemies in foreign countries; probably in the Middle East. The 1996 Air Force document "Weather as a Force Multiplier: Owning the Weather in 2025" outlines such a program.

Agriculture

The link between weather and agricultural production is obvious. Production of crops and livestock was the motivation behind ancient weather modification activities and this motive continues to propel today's New Manhattan Project. There's nothing new under the sun. The relationships between weather and agricultural production have been well studied and well understood. The two main areas of public study, experiment, and implementation have been in precipitation enhancement and hail suppression. Lightning suppression has also been studied extensively.

By 1968, the Department of Agriculture Joint Task Force on Weather Modification had

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issued a report (the first of many) stating that the federal Government should be concerned with the possible agricultural benefits from increased precipitation due to weather modification. They were talking about the conventional weather modification industry which, since 1947, has only concerned itself with precipitation (ch 2). The New Manhattan Project has since gone on to concentrate on many other geophysical conditions such as atmospheric temperature, but the principle is the same.

The geophysical conditions previously achieved by the conventional weather modification industry are today achieved by the New Manhattan Project. Therefore, study applicable to the benefits of the conventional weather modification industry applies to the New Manhattan Project as well.

The March, 1971 Interdepartmental Committee for Atmospheric Sciences Report found hail suppression to be quite cost effective. Their authors write, "Annual hail damage in the United States amounts to over \$300 million. Where limited areas of certain crops have been 'protected' by commercial seeding operations, reported benefit-cost ratios have been generally better than 2 to 1."

In 1975, the Department of Atmospheric Science at Colorado State University produced a 200 plus page report assessing the present and potential role of weather modification in agricultural production. In this document, many renowned geoengineers statistically determined the relationships between precipitation and agricultural production and how said production might increase or decrease by weather modification.

In 1976 Congressional testimony, weather modifier Dr. D. Ray Booker wrote, "A study by the North Dakota State University indicates the gross state product of North Dakota would be increased by at least \$300 million through the addition of one inch of additional rainfall during the growing season. This benefit would undoubtedly be several billion dollars if the same increase were spread over several states." \$300M in 1976 is worth about \$1.3B today. A billion dollars in 1976 works out to over \$4 billion today.

The same organizations that have been bringing us the New Manhattan Project's technology have also been very interested in agricultural crop yields. The National Oceanic and Atmospheric Administration (NOAA), the National Aeronautics and Space Administration (NASA), the World Meteorological Organization (WMO), and others came together in the mid-1970s to conduct something called the Large Area Crop Inventory Experiment. This experiment involved satellites using remote sensing technologies in order to determine crop growing conditions and thus predict forthcoming yields. Since then, this type of technology has become standard. There is a Wikipedia page for "Satellite crop monitoring."

If one can significantly influence crop yields with covert weather modification such as the New Manhattan Project, one can make money in agricultural commodity financial markets.

Water

As we have seen, weather modification has historically most often been practiced in order to increase precipitation. In the case of today's New Manhattan Project though, it may also be about the reduction of precipitation. What is done with water, whether it be abundant or lacking, is where your local water district comes in. The politics of water distribution, made famous in the 1974 movie "Chinatown," have quite a reputation. Strange occurrences continue.

Water resources management has been studied intensively at the highest levels. The July,

"The importance of water resource management and planning has been recognized for some time, and related problems are being addressed at all levels of government in this country. Federal efforts include studies and analyses conducted by the Department of Agriculture (USDA), Department of Commerce (DOC), Department of Housing and Urban Development (HUD), Department of the Interior (DOI), and the U.S. Army Corps of Engineers, covering a broad spectrum of hydroclimatic impacts. Many of these activities are part of a program recommended by the Committee on Water Resources Research (COWRR) of the FCST [Federal Council for Science and Technology] directed toward specific needs and priorities identified by the COWRR."

In 1976, U.S. Congressman Bernice Sisk (CA/D) testified that, before any Federal funds arrived, local California irrigation districts paid for all weather modification activities. He said that after the Federal funds began flowing, local irrigation districts continued to provide a majority of the funding. He said the financing was done through California's college system.

The Interdepartmental Committee for Atmospheric Sciences (ICAS) report of May, 1973 supports Mr. Sisk's assertion, albeit on a State level. Under the heading of 'Precipitation Management,' the Bureau of Reclamation writes:

"The planning and ecological studies in the Central Sierra Mountains of California and Nevada will continue as a joint effort in association with the California Department of Water Resources."

Due to the 2015 draught in California, which was probably geoengineered, alfalfa farmers in the Palo Verde Valley went out of business. Swooping in to feast on their carcasses was the local water district. Of course, now it's 2016 and the reservoirs are full. It looks like the water district got a good deal. Maybe this is the game plan going forward.

<http://www.dailynews.com/general-news/20151121/water-agencys-land-purchase-rattles-california-farmers>

Energy

In addition to making plants and cities grow, rainwater can generate hydroelectric power. More rain and snowpack means more power. Over the years, this fact has fostered a cozy business relationship between weather modifiers and people responsible for the generation of hydroelectric power.

As early as 1952, the Bonneville Power Administration of the Pacific Northwest was involved in cloud seeding operations. Other early participants include the California Electric Power Company (Southern California Edison) and the Pacific Gas and Electric Company (PG&E) of Northern California.

These utilities have been participating in a conventional weather modification industry practice called 'orographic' cloud seeding. Orographic cloud seeding entails running ground-based silver iodide generators upwind from a mountain range. The silver iodide particles are

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taken by the naturally occurring wind and elevated as they race up the face of the mountains. The particles eventually reach an altitude at which they may nucleate usually as snow, which increases the snowpack and thus, water available for hydroelectric power generation. This is much cheaper than operating aircraft and has been quite prevalent over the years. They engage in these activities to this day.



Fig. 11 -- Pacific Gas & Electric Company ground-based silver iodide generator.

A PG&E ground-based silver iodide generator

Image source: the Pacific Gas and Electric Company

A paper by meteorologist Loren W. Crow appeared in the most referenced weather modification report; 1958's "Final Report of the Advisory Committee on Weather Control." In reference to money that might be made from additional hydroelectric power generation, her paper reads, "An annual [cloud] seeding project which covers 1,000 square miles might cost only \$20,000 and have a reasonable chance of producing additional water worth \$100,000. Another project with a target area of only 500 square miles might cost \$50,000 per year to operate but the value of a small increase in additional water might be worth \$1,000,000." She's writing about making, on a short-term basis, five to twenty times the money invested. Those are some healthy returns!

Pacific Gas and Electric (PG&E) did an initial study; the results of which were published in a 1966 paper titled "Weather Modification and the Operations of an Electric Power Utility: The Pacific Gas and Electric Company's Test Program." They were operating ground based silver iodide generators in order to enhance mountain snowpack and thus increase hydroelectric power. PG&E found average cost/return ratios of 1:5.56.

The Congressional Research Service's senior specialist on the subject wrote in a 1978 report:

"In a 1969 study, the Travelers Research Corp. estimated that run-off from the entire Connecticut River basin might be increased by about 2 million acre-feet (15 percent) per year through a weather modification program. It was calculated that this increment of water would cost \$2.30 per acre-foot, or \$4,600,00 annually. The report also stated that net benefits of

\$1,400,000 from municipal water supply, and \$2,600,00 from supply of cooling water for thermal electric generating stations and increased flow for hydroelectric power generation might be realized by the 1980's."

We will shortly have more about the Travelers.

Any way you slice it, if you're in the energy business, it makes plain old dollars and cents to modify the weather. Do you really think that all these companies would have been so heavily invested in weather modification over the years if it didn't work? As far as the efficacy of conventional weather modification goes, that's about all you need to know.

The Travelers

Historically, when it comes to weather and the modification thereof, the Travelers Insurance Corporation of Hartford, Connecticut has been the most active insurance company.

Weather related financial instruments have been pioneered by the Travelers. As early as 1954, in co-operation with the U. S. Weather Bureau, the Travelers simultaneously established a weather research organization called The Travelers Weather Research Center and a weather observing and forecasting station called The Travelers Weather Service. A radio station owned by the insurance company disseminated weather information to the public. Information was also shared with government groups. An associate professor of meteorology from the Massachusetts Institute of Technology named Thomas F. Malone headed these operations. At the time, the president of the company said, "This action is being taken after long and thorough investigation of the possibilities of weather study in relation to insurance underwriting." From 1968 to 1970, Malone was vice president of Travelers Insurance.

Throughout his life, Thomas F. Malone PhD (1917-2013) of the Traveler's Research Department was very active in the atmospheric sciences. In the early 1950s, he served as a civilian consultant to the Office of Naval Research. Malone advised then President Kennedy on his aforementioned 1961 weather control speech before the UN. He joined the U.S. national committee of the United Nations Educational Scientific and Cultural Organization (UNESCO) in 1965. The 1966 National Academy of Sciences report "The Atmospheric Sciences 1961-1971" was produced under a committee chaired by Mr. Malone. Mr. Malone's committee included the aforementioned Gordon J.F. 'How to Wreck the Environment' MacDonald. Malone sat on the U.S. Department of Commerce's Weather Modification Advisory Board from 1977 to 1981. Mr. Malone was instrumental in the formation of the National Center for Atmospheric Research (NCAR) and later became Chairman of NCAR's Board of Trustees. Malone also served as the president of both the American Meteorological Society and the American Geophysical Union. Malone was an early, longtime, and steadfast promoter of the theory of man-made global warming. He helped establish the Intergovernmental Panel on Climate Change (IPCC) in 1988.

In the early 1960s, the Travelers participated in the Bureau of Reclamation's massive Project Skywater.

By 1967, the Travelers had studied the large-scale hydrology of North America east of the Rockies with the Environmental Science Services Administration (ESSA); the predecessor to today's National Oceanic and Atmospheric Administration (NOAA).

In 1968 it was reported in the proceedings of the tenth NOAA weather modification

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conference that the Travelers was paid by the National Science Foundation (NSF) to review the NSF's weather modification documents in order to, "...investigate the possibility of abstracting useful scientific information...."

In 1968, the NSF reported that:

"The Bureau of Reclamation has initiated a project with the Travelers Research Center in Hartford, Conn., to formulate a simple model to study the effects of artificial nucleation over relatively large areas and the feasibility of surface or aircraft seeding. The qualitative value of precipitation augmentation over the Connecticut River Valley has now been established with respect to municipal water supply, pollution abatement, power generation, and recreation."

The icing on the cake here is that the Travelers insured the original Manhattan Project. Let us refer to a 1964 self-produced history. "The Travelers: 100 Years" reads:

"The Travelers was approached by the private contractors engaged in the project with the request that the Companies administer the forms of insurance which would be required to protect workers and the public. The Companies assented, on the condition that the government guarantee the payment of premiums. This done, a special underwriting formula was worked out."

Not only did the Travelers provide the Manhattan Project insurance, they also did a good job covering it up. "The Travelers: 100 Years" continues:

"The most ticklish phase of the adjustment of claims was the necessity of keeping them from reaching law courts, where publicity might have drawn undesired attention to the mysterious operations in process at Oak Ridge and Hanford."

Weather Derivatives

Since the heady days of the Travelers' first excursions into weather related financial products, other weather related financial markets and products have arisen. The first of two markets to be discussed here is the weather derivatives market. The other market is the catastrophe reinsurance market which will be discussed shortly.

In his paper "Why in the World Are They Spraying?," activist Michael Murphy floated the idea that chemtrails are sprayed (at least in part) in order to manipulate the weather derivatives market. He posted his story in October of 2011. He may not be too far off the mark as an investigation detailed here leads us to many questionable situations, strange bedfellows and none other than those legends of corruption and waste, Enron. The thoroughly disgraced and vilified corporation was the founder of the market. Would you put it past Enron?

Weather derivatives are financial instruments (options, futures, and options on futures) anyone can buy that either pay off or don't pay off according to recorded atmospheric conditions such as temperature and rainfall. These instruments are mostly traded on the Chicago Mercantile Exchange (CME). They are also traded on smaller 'over the counter' (OTC) markets. Weather derivatives are usually structured as swaps, futures, and call/put options.

Although they are available for sunshine hours, snowfall, rain, wind speed and many other

geophysical conditions, the most common type of weather derivative by far is based on temperature. According to industry experts, temperature based weather derivatives account for anywhere from 75-99% of all weather derivatives sold. Atmospheric conditions are recorded and published by authorized organizations.

This is how temperature based weather derivatives work. Indices take a location's daily average temperature, then a number is determined by how much that day's average temperature deviates from 65 degrees Fahrenheit (or 18 degrees Celsius outside the U.S.). The number deduced determines the derivative's value and can be aggregated over a period of hours, days, weeks, months or seasons. Other indices simply aggregate average daily temperatures. In short, the day's average temperature determines the derivative's value. You can bet that temperatures will be above or below the long term daily average for a particular hour, date or group of dates.

The first weather derivative transactions were conducted over the counter in 1997 between Willis Group Holdings, Koch Industries, Pxr Reinsurance Company, and Enron. These transactions followed the deregulation of the energy market in the U.S..

The weather derivatives market was greatly expanded in 1999 when weather derivatives began trading on the Chicago Mercantile Exchange.

The leading weather derivatives industry association was founded in 1999 and is called the Weather Risk Management Association (WRMA). According to former Enron employee Lynda Clemmons, "The Weather Risk Management Association was launched by myself, and by Jim Gosselin of Castlebridge Partners, Darren Wilcox of Southern Co., Ravi Nathan of Aquila Energy and Jeff Porter of Koch Industries." Mrs. Clemmons neglected to mention another WRMA founder, Swiss Re.

In 2011, the WRMA released the results of a survey which pegged the current global weather derivatives market value at about \$12 billion.

USA Today says in their article "Weather Derivatives Becoming Hot Commodities" that the largest broker of weather derivatives in the world is TFS Energy. A man named Kendall Johnson, who is described as one of the industry's most powerful professionals, states, "Businesses in the U.S., Japan, London and Amsterdam are the most frequent users of weather risk management, though companies in emerging markets like India are beginning to trade weather derivatives."

Other big corporate players include: Aquila Energy, Southern Energy, Castlebridge Weather Markets, British Gas, Hess Energy, ABN Amro, Merrill Lynch, AXA Re, Swiss Re, Koch Energy, RenRe Energy, Nephila Capital, Munich Re, Speedwell Weather Derivatives, Vyapar Capital Market Partners, Galileo Weather Risk Management, PCE Investors / Cumulus, EDF Trading Limited, Risk Solutions International, E.ON Energy Trading, Mitsui Sumitomo Insurance Company, and Endurance Reinsurance Corporation of America. As you can see, re-insurers are some of the biggest market players.

Swiss Re is a name that comes up again and again, and just happens to be the insurer of the World Trade towers at the time of the 9/11 attacks. But, that's surely just a coincidence. There's nothing to see here. Move along.

Swiss Re also happens to be the purchaser of General Electric's reinsurance company Employers RE. It was reported by InsuranceJournal.com on November 18, 2005 in an article titled "General Electric Exits Insurance; Sells Insurance Solutions, Employers Re to Swiss Re."

Although General Electric scientists famously started the New Manhattan Project in 1946, we can rest assured that Swiss Re is not involved.

<http://www.insurancejournal.com/news/national/2005/11/18/62177.htm>

The energy sector is the biggest buyer of weather derivatives because energy companies' bottom lines and cash flows are largely affected by temperature fluctuations. This is why temperature based weather derivatives are the most prevalent. Energy companies produce more power and thus increase cash flows when the weather gets either hot or cold because people use more air conditioning when it is hot and more heat when it is cold.

The weather derivatives market was created with the energy sector in mind. As we have seen, the market was founded by big energy players, most notably Enron. According to a Chicago Mercantile Exchange brochure, the 65 degree baseline selected for determining daily index values was chosen by the energy industry. The terms used to describe index values are Heating Degree Days (HDD) and Cooling Degree Days (CDD). Heating Degree Days refer to the number of degrees Fahrenheit below 65 the average temperature of a winter's day is. Cooling Degree Days refer to the number of degrees Fahrenheit above 65 degrees a summer's day is. It is this way because 65 degrees is about the temperature where if it is warmer than that, people use more air conditioning and if it is cooler than that, people tend to use more heating.

Industry publications claim substantial non-financial or non-energy sector participation in the weather derivatives market. But, of businesses outside the finance or energy sectors, this investigation revealed very little participation. It is unrealistic that (especially in the tough economy we've been having lately) an organizer of an outdoor event, let's say, would first of all even be aware of weather derivatives, much less use the time, energy, expertise, and money to buy such things. Businesses outside of finance and energy usually use more traditional forms of insurance or hedge with commodities contracts. Weather derivatives are almost entirely an energy and finance sector market. There is hardly any retail investor activity here, if at all.

Industry publications also often claim that weather derivatives are used by energy companies only as hedges against unforeseen demand lapses. If a particular winter is too warm, for example, an energy company would not make as much money selling fuel as they would in an abnormally cold winter. But, the reasoning goes, if they have purchased a hedge in the form of weather derivatives, they can make up those losses.

This investigation has found that weather derivatives are traded like any other Wall Street market. To make a buck, they are traded any way possible. Enron, the founder of the market, is famous for their trading desk which specialized in arbitrage. Because weather derivatives, energy futures, and energy company revenues rise and fall depending upon temperature, the markets are related. This is why weather derivatives are often traded in conjunction with energy futures.

The 2007 Bloomberg article "Hedge Funds Pluck Money From Air in \$19 Billion Weather Gamble" had it right. Nowhere in this article will you see any mention of non-financial or non-energy sector participation. In fact, industry professionals are quoted as saying they are, "...using weather as market intelligence." And that their business is, "...like playing poker."

Or consider Enron's John Sherriff, an originator of the market. According to Risk.net

"He decided to sit out on the trading floor rather than in an office and other managers followed his example, including the company lawyer. 'I was an advocate of sitting on the trading floor,' says Sherriff. 'For a start, I found it the most exciting place in the building, but I also wanted to be accessible. I thought it would create an environment where there was more and quicker communication.'"

Mr. Sherriff was apparently quite the gambling man. The Authors of "The Smartest Guys in the Room" write:

"The Sherriff legend was that he had made an enormous amount - tens of millions - in a single bet on short-term gas prices back in the mid-1990's, when the business was still in its early stages and such a windfall was not believed possible."

Stories about the gamblin' John Sherriff seem to go on and on. Also from "The Smartest Guys in the Room" we find:

"Every year on the annual retreat to the Hyatt Hill Country Resort in San Antonio for vice presidents and above, a group of traders would play a poker game called Omaha (where the lowest hand and the highest split the pot) at the same table in the lobby of the hotel. The pot was usually around \$1,000, but in the final year it was played - 2000 - three players thought they had good odds of winning. The pot grew to \$33,000, as the crowd gathered and the tension built into the early morning hours. One player had both the high hand and the low hand. He bought a new BMW. The other two - one of them London chief John Sherriff - were out \$11,000 each."

Weather derivatives by themselves are big money gambles. They probably contribute to making it worthwhile to put planes up in the sky spraying stuff on a daily basis. If you divide 2011's total market value (\$12 billion) by the number of traded contracts (466,000), you get the average contract value which is \$25,321. A matter of a few degrees on a given day or group of days could mean hundreds of thousands of dollars.

The weather derivatives market and other opportunities were made possible by deregulation of the energy market. Deregulation necessarily means government involvement. Was the Department of Energy in bed with Enron? As we will see in the next section, Enron CEO ol' Kenny Boy (as the Bushes called him) had extensive experience and connections with energy policy at the federal level.

The fact that Enron founded the weather derivatives market is very dubious. This is a company whose accounting firm, Arthur Andersen, shredded more than a ton of their documents in one day as Enron's chairman Ken Lay told everybody everything was fine. Enron's bankruptcy resulted in criminal charges against at least 21 former executives. People suffered under high power costs inflated by Enron. When Enron and their cronies intentionally disrupted power service as they were known to do, people were injured and died. Who knows how many bodies they left behind? These guys were not playing Tiddlywinks. We shouldn't

A History of Weather Derivatives

Lots of information about the history of the weather derivatives market is available. It is this way because Enron originated the weather derivatives market. The fall of Enron was one of the greatest corporate scandals in American history, so there has been much already investigated and exposed. This section examines this history of weather derivatives so inextricably connected to one of the most famously dishonorable corporations in history.

When you're talking about the history of weather derivatives, you're talking about Enron. They developed the most widely used early trading platforms, they were founding members of the leading industry association and were counterparties in the first known domestic and international transactions.

In their heyday, Enron received Fortune Magazine's award for 'Most Innovative Company' six years in a row. They gave their Enron Prize for Distinguished Public Service to people like Nelson Mandela and Mikhail Gorbachev. Henry Kissinger and James Baker worked as Enron consultants; traveling to such far-flung destinations as Kuwait and China preaching the Enron gospel. Stock analysts gushed over everything Enron did. Enron could seemingly do no wrong.

The only problem was, Enron was cooking the books seven ways to Sunday. When the S.H.T.F., Enron's stock tanked like World Trade Center building 7 and eventually brought down one of the nation's oldest and largest accounting firms, Arthur Andersen.

Although the company itself has long since been chopped up and sold off, former Enron employees now populate many other financial market trading establishments.

The particular division known to buy and sell weather derivatives was called 'Enron Weather.' Enron Weather started as a small, but promising bit of the company. By the time of Enron's demise in 2001, Enron Weather had grown to a significant part of their business.

Although the book "What Went Wrong at Enron" claims that the weather derivatives market probably came from an idea that just popped into the head of the TV weatherman brother of Enron executive Jeffery Skilling, there is quite a bit of documented history long before this. From a 1968 example, we learn that the National Science Foundation (NSF) was laying the foundations of the weather derivatives market a long time ago. The tenth annual NSF weather modification report reads:

"Under NSF support, the University of Missouri is continuing its study of a method to determine the potential impact of weather and climate modification upon the social and economic structure of a sample State such as Missouri. The electrical power industry has been considered to be one which is both weather sensitive and one for which data useful for statistically isolating this relationship are available. For this reason it was decided to make study of the potential effects of weather modification on its operation. Daily electrical power demand data covering a number of midwestern states were supplied by the Edison Electric Institute."

"Using these data and Weather Bureau temperature records, it was possible to construct a

series of power loads for each of a number of regions in the study area corresponding to the modified and nonmodified temperature series. Power generation costs and capacities for each of the regions in the study area were then entered into a linear programming model. With the modified and nonmodified load series, it was possible to construct two estimates of the cost of supplying power to the area. Each area power supply cost was a minimum given the loads and existing generation facilities. Comparisons of the costs of supplying power to the area during the summer months then provided an estimate of the direct effect of potential temperature modification on the electrical industry."

The 'degree day' term and the 65 degree threshold are discussed as early as 1975 in "Economic Impacts of Weather Variability" by James McQuigg.

Expanding upon the degree day thesis, the 20th ICAS report reads, "...CCEA [Center for Climatic and Environmental Assessment] is developing highly sophisticated mathematical models by which population-weighted degree days can be linked specifically to use of natural gas, to the exclusion of other fuels."

Although many others had previously laid the groundwork, it wasn't until the late 1990s that Enron entered the picture. Loren Fox, the author of "Enron: The Rise and Fall" tells the story of Enron Weather like this:

"...weather derivatives came to be championed by an employee working at the grassroots level and seeing customers' daily needs. John Sherriff, who at the time managed gas trading for the western United States, began looking at derivatives linked to the weather in late 1995, and Vincent Kaminski's research group worked on the idea in 1996. A gas trader named Lynda Clemmons was very interested in the idea, based on her conversations with executives at electric utilities that used coal-fired power plants.... In 1997, Enron handed off its weather derivatives effort to Clemmons, who was only 27. She began a one-person weather-hedging department within ECT [Enron Commodities Trading]..."

Fox continues:

"...Clemmons built up Enron's weather business so that it did 350 transactions (hedging up to \$400 million in potential revenues) in 1998, turning its first profit that year."

Enron initiated the weather derivatives market in Europe as well. Enron's Oslo office became the base of their European weather derivatives business. In 2000, Enron also introduced weather derivatives in Australia; offering temperature-based products for Sydney, Melbourne, Hong Kong, Tokyo, and Osaka.

In 2002, after the bankruptcy, the Enron trading desk (including Enron Weather) was bought by UBS Warburg.

According to his websites, John Sherriff is now the owner of Lake Tahoe Financial and other Sherriff family businesses.

Mrs. Clemmons left Enron in 2000. She took a number of her colleagues from Enron's weather team and set up weather derivatives company called Element Reinsurance. After Enron, Lynda Clemmons also worked at XL Weather & Energy, The Storm Exchange Inc. and

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Vyapar Capital Market Partners. According to her LinkedIn profile, Mrs. Clemmons is now an independent consultant.

The Enron financial market trading desk, just like the company itself, had a history of corruption. Back in 1987, the Enron trading operations were called 'Enron Oil.' When questions about an Enron account at New York's Apple Bank began surfacing, Enron management turned a blind eye. Money was pouring into this questionable account from a bank in the Channel Islands and flowing out to the account of a man named Tom Mastroeni; the treasurer of Enron Oil.

Enron management explained away these money flows and this questionable account as completely legal profit shifting. Although Mastroeni produced doctored bank statements and admitted a cover-up, Enron management didn't pursue the issue. Nobody involved was even reprimanded. Revelations continued to come out, but Enron management did nothing. Enron's accounting firm Arthur Andersen exhibited a similar disinterest.

After management confirmed an official lack of responsible oversight, Enron Oil traders ignored position limits and got themselves in big trouble. Only then did Enron executives show interest.

The authors of "The Smartest Guys in the Room" tell the story like this:

"For months, Borget [the CEO of Enron Oil] had been betting that the price of oil was headed down, and for months, the market had stubbornly gone against him. As his losses had mounted, he had continually doubled down, ratcheting up the bet in the hope of recouping everything when prices ultimately turned in his direction. Finally, Borget had dug a hole so deep - and so potentially catastrophic - that there was virtually no hope of ever recovering."

Enron brass was in a panic. Enron was looking at a \$1 billion loss; enough to bankrupt the company. Management sent in some expert traders who, over the course of a few weeks, managed to clear out these positions with only a \$140 million loss.

Enron had to tell people about this \$140 million trading loss, though. Enron's stock slid 30%. The blame game began. Ken Lay, the affable Enron founder and CEO, denied any responsibility. News of the scandal conveniently came out right after a big bank loan approval.

The U.S. attorney's office charged Borget and Mastroeni with fraud and personal income tax violations. In 1990, Borget pled guilty to three felonies and was sentenced to a year in jail and five years' probation. Mastroeni pled guilty to two felonies. He got a suspended sentence and two years probation.

Ken Lay created new financial markets (such as the weather derivatives market) and helped his company make more money through energy sector deregulation. Deregulation created a situation where Enron and others could more effectively manipulate and arbitrage (specifically regulatory arbitrage) markets.

"Enron was the focal point of the deregulation agenda," says Jonathan Whitehead, who started with Enron Europe in 1996 and was heading the liquefied natural gas (LNG) business in Houston at the time of Enron's demise. 'It was the most vocal when explaining to regulators and governments and customers the benefits of deregulated markets. I don't think deregulation in power and gas in Europe or the US would have come as far as it has without Enron,' he says."

"Pushing for deregulation was very much a part of the company's strategy from the start. 'Ken Lay [chairman and chief executive of Enron] was the visionary at the time as far as seeing where deregulation could go and actually driving deregulation,' says Mark Frevert, who worked at one of Enron's predecessor companies, Houston Natural Gas, from 1984 and stayed at Enron until it's demise."

Deregulation necessarily required help from the federal government. To make it happen, Enron and Ken Lay (who died in 2006) had the right federal connections in spades.

Ken Lay enlisted in the navy in 1968. His friend pulled some strings and had him transferred to the Pentagon. According to the authors of "The Smartest Guys in the Room," Lay spent his time at the Pentagon, "...conducting studies on the military-procurement process. The work provided the basis for his doctoral thesis on how defense spending affects the economy." Ken Lay had many high level military connections. As we have seen, the evidence suggests that today's domestic chemtrail spraying operations are carried out by what passes for our military.

Mr. Lay had the right political and specifically energy related political connections as well. Under his former professor Pinkney Walker, he worked in the Nixon administration as a Federal Power Commission (FPC) aide. According to Russ Baker, "After less than two years [as an FPC aide], Lay was put in charge of coordinating government energy policies, as deputy undersecretary of interior." Later as chairman and CEO of Enron, he sat on the boards of prestigious Washington DC think tanks and often travelled to Washington.

A revolving door existed between Enron and the federal government. Enron executive Tom White left the company to join the Bush Jr. administration as secretary of the army. Enron executive Herbert 'Pug' Winokur was Lay's old Pentagon friend. Robert Zoellick (now Chief Executive at the World Bank) worked for Enron, then became a United States Trade Representative and later the Deputy Secretary of State.

According to the authors of "The Smartest Guys in the Room," "In 1993, Lay added Wendy Gramm [to the Enron board], who had just finished a stint as chairman of the Commodities Futures Trading Commission (CFTC) and was married to Texas Senator Phil Gramm." It continues, "Just after Wendy Gramm stepped down from the CFTC, that agency approved an exemption that limited the regulatory scrutiny of Enron's energy-derivatives trading business, a process she had set in motion."

When Enron galloped into Europe, they had an influential lord on their side. Journalist Greg Palast covers it like this:

"The fact that a truly free market [in electricity] didn't exist and cannot possibly work did not stop Britain's woman in authority, Prime Minister Margaret Thatcher, from adopting it. It was

more than *free market theories that convinced her. Whispering in her ear was one Lord Wakeham, then merely 'John' Wakeham, Thatcher's energy minister. Wakeham approved the first 'merchant' power station. It was owned by a company created only in 1985 - Enron. Lord Wakeham's decision meant that, for the first time in any nation, an electricity plant owner, namely Enron, could charge whatever the market could bear... or, more accurately, could not bear.*"

"It was this act in 1990 that launched Enron as the deregulated international power trader. Shortly thereafter, Enron named Wakeham to its board of directors and placed him on Enron's audit and compliance committee."

A scheme to manipulate financial markets by modifying the weather would necessarily involve intelligence agencies. According to the authors of "The Smartest Guys in the Room," Enron had intelligence agency connections:

"One of Enron's key advantages over its competitors was information: it simply had more of it than its competitors. It's physical assets provided information, of course. And Enron didn't stop there. It employed CIA agents who could find out anything about anyone. In stead of tracking the weather on the Weather Channel, the company had a meteorologist on staff. He'd arrive at the office at 4:30 A.M., download data from a satellite, and meet with the traders at 7:00 A.M. to share his insights."

It continues, "By the late 1990's, these research efforts were herded together into something called the fundamentals group - fundies in trader parlance. The fundies group produced intelligence reports and held morning briefings..."

Mr. Lay and Enron also had many connections to the Bush family and their cohorts. President George W. Bush (Bush Jr.) lovingly called Ken Lay 'Kenny Boy.' Mr. Lay was also close to his father, fellow Houstonian, George H.W. Bush (Bush Sr.). For example, in 1991, Bush Sr. offered Mr. Lay the position of Commerce secretary. Mr. Lay turned him down. He wanted to be Treasury secretary.

Greg Palast, in his book "The Best Democracy Money Can Buy," characterizes the Bush/Enron relationship like this:

"But what about Pioneer Lay of Enron Corp? His company, America's number one power speculator, was also Dubya's number-one political career donor (\$1.8 million to Republicans during the 2000 presidential campaign). Lay was personal advisor to Bush during the postelection 'transition.' And his company held secret meetings with the energy plan's drafters. Bush's protecting electricity deregulation meant a big payday for Enron - subsequent bankruptcy notwithstanding - sending profits up \$87 million in the first quarter of Bush's reign."

Other Bushes were apparently getting some, too. Greg Palast writes:

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"Two months after the bankruptcy, Governor Jeb Bush of Florida traveled to the Texas home of Enron's ex-president, Rich Kinder, to collect a stack of checks totaling \$2 million at the power pillager's \$500-per-plate fund-raising dinner. There are a lot of workers in Florida who will wish they had a chance to lick those plates, because that's all that's left of the one-third of a billion dollars Florida's state pension fund invested in Enron - three times as much as any other of the fifty states."

Mr. Palast continues:

"Governor Bush encouraged a scheme by a company called Azurix to repipe the entire Southern Florida water system with new reservoirs that would pump fresh water into the swamps. From the view of expert hydrologists, such a mega-project is a crackbrained and useless waste of gobs of money. As part of the deal, Azurix would be handed the right to sell the reservoir's water to six million Florida customers. Azurix was the wholly owned subsidiary of Enron that had recently been kicked out of Buenos Aires."

Specializing in private equity buyouts, The Carlyle Group is one of the Bushes' two main family businesses and one of the nation's largest defense contractors. Evidence suggests that chemtrail spraying is a military operation. The Carlyle Group could help geoengineering programs happen.

Participation in a scheme to defraud the population while murdering them at the same time would probably be A-Ok. with the Bush family. Bush family members exhibit recurring criminal behavior. Forget about the Enron connections. Do you know about the Nazi connections? Are you aware of the numerous links to 9/11? Have you heard of the connections to the attempted Reagan assassination or the attempted assassination of Pope John Paul II or the JFK assassination? They got rich when the taxpayer had to bailout the Savings and Loans. Don't forget that little Iran-Contra fiasco and the drug dealing, gun running and money laundering. Yup, they're connected to that dirty, dirty BCCI thing, too. Folks, these are just some of the things we know about. When you see cockroaches, you can bet there are hundreds more in the wall.

So, who funds the Bush family? The answer is a little investment bank called Brown Brothers Harriman. Maybe you've heard of it. This is the American bank that funded the Nazi war effort during WWII. Webster Tarpley and Anton Chaitkin in their book "George Bush: the Unauthorized Biography" describe the situation like this:

"For George Bush, Brown Brothers Harriman was and remains the family firm in the deepest sense. The formidable power of this bank and its ubiquitous network, wielded by Senator Prescott Bush up through the time of his death in 1972, and still active on George's behalf down to the present day, is the single most important key to every step of George's business, covert operations and political career."

As if all this wasn't enough, in the late 1940s, Bush Sr. was in the employ of another Bush/Harriman family business called Dresser Industries. During the original Manhattan Project, Dresser Industries and their Pacific Pump Works provided crucial parts for the process

In short, the Bush family, Enron, and Ken Lay had the right political, business, intelligence, and military connections necessary to facilitate the scheme outlined here.

Enron was a business laboratory. In the new world of deregulation created by the Bushes, Enron and others, the purpose of the company was to throw things against the wall and see what stuck. Enron was the perfect environment in which to try something new like weather derivatives. In light of the histories of corruption exhibited by those involved, it is understandable that the weather derivatives market they created may have been part of yet another murderous rip-off.

While most financial market trading operations are seen as unreliable, Enron's trading desk was often regarded as their most productive and stable business. Could this have been because they were getting inside information about weather produced by geoengineering activities? They had the ways and means necessary. Enron had motive and opportunity. Enron benefitted from weather derivatives.

Catastrophe Reinsurance

Besides weather derivatives, there is also another, larger financial market which rises and falls with the weather; the catastrophe reinsurance market. In this market, the most commonly issued security is something called a 'catastrophe bond.' The issuance of catastrophe bonds themselves is a bespoke market. That means participants engage in direct and often lengthy negotiations to craft customized agreements.

The weather derivatives market and the catastrophe reinsurance market are part of a larger market known as the 'Alternative Risk Transfer' market. The Alternative Risk Transfer market is an insurance market. 'Risk transfer' is insurance.

You may have heard of the catastrophe reinsurance market. It's home to the 'terrorism insurance' market. The catastrophe reinsurance market is also home to the Special Contingency Risk (Kidnap & Ransom) market. Don't forget the death bond market; you stand to gain healthy rates of interest if a certain number of people don't die. But if they do, you lose and the banks get all your money, capiché?

Catastrophe insurance derivatives market participants come together at the New York based Catastrophe Risk Exchange (CATEX). Industry expert Erik Banks describes it like this:

"Although CATEX is not a formally regulated exchange and does not trade standardized contracts, it brings together multiple parties in a central forum so that they can execute cat risk covers in a organized fashion. In practice, participants (who must be subscribers) make use of CATEX's technology platform to post exposures they seek to cover or protect. Once posted and matched, the two parties conclude discussions in a private setting; CATEX might therefore be regarded as a hybrid listed OTC transaction-matching conduit."

Once issued, these catastrophe bonds (or 'cat bonds' as they are called) are then cut into little pieces and sold in a process known as 'securitization.' Insurance Catastrophe Futures Contracts

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have been trading on the Chicago Board of Trade (CBOT) since 1992.

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If a bank or insurance company wants to position themselves to gain a whole lot of money in the case of a series of catastrophic hurricanes in a particular region, let's say, or a certain region suffering a sustained draught or floods or tornadoes or earthquakes, that's what the catastrophe reinsurance market is for and the NMP can produce all these phenomena.

Although catastrophe bonds have only been around since the early 1990's, the catastrophe reinsurance market has been around since the 1960's. The leading industry association was founded in 1968 and is called the Reinsurance Association of America (RAA). The RAA describes itself thusly, "The RAA is committed to promoting a regulatory environment that ensures the industry remains globally competitive and financially robust, unhindered by conflicting state and federal regulation."

"The RAA's public policy priorities include: federal and state financial role for natural disaster and terrorism catastrophe risk; regulatory reform efforts at the federal and state level; international trade, accounting and tax policy; accounting and financial reporting; solvency oversight and reinsurance recoverables; and climate change and environmental risk."

The catastrophe reinsurance market involves much more money than the weather derivatives market. While the Weather Risk Management Association recently pegged the value of the global weather derivatives market at about \$12B, industry player Nephila Capital's website states, "The amount of notional exposure that trades in the catastrophe reinsurance market each year is approximately \$200B." Now we're talking about your 'disaster capitalism' industry!

2011 was a big year for the catastrophe reinsurance market. In September of 2011, the industry's biggest broker Guy Carpenter released a report stating, "The devastating earthquakes in New Zealand and Japan, along with damaging tornadoes and floods in the United States and Australia, have resulted in insured losses of around USD70 billion so far this year."

Munich Re puts 2011 industry losses for the first half of the year at \$265 billion; easily surpassing the previous full-year record amount of \$220 billion set in 2007. According to Munich Re, "The 9.0 magnitude earthquake, the strongest ever registered in Japan, is also the costliest natural catastrophe on record."

Financial and energy market deregulation enabled the existence of today's catastrophe reinsurance and weather derivatives markets. The repeal of Glass-Steagall was key. Here is a passage from a book by industry insider Erik Banks, "In the US, product and market convergence has been aided by the passage of the 1999 Financial Modernization Act (i.e., the Gramm-Leach-Bliley Act), which eliminated the 1933 Glass-Steagall Act and Depression-era legislation that prohibited banks and insurance companies from encroaching on each other's territory." When Mr. Banks refers to 'convergence,' he's writing about money pouring into the insurance industry from the banking industry.

According to Mr. Banks, for tax and regulatory reasons, many catastrophe reinsurance industry participants choose to domicile in countries such as: Bermuda, the Cayman Islands, the British Virgin Islands, Luxembourg and Ireland.

The catastrophe reinsurance market consists of: related financial sector businesses, brokers, banks, hedge funds, and insurance companies. None of the material this author read mentioned any retail investor participation. This is a professional insurance market.

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Although industry consolidation remains a trend, related financial sector businesses such as Bermuda Transformers are needed to perform specific functions such as converting derivative instruments into reinsurance contracts. Brokers negotiate deals. The biggest brokers are Willis Group Holdings and Guy Carpenter & Company. Banks provide the capital. Big banks have internal hedge funds which play the catastrophe reinsurance market.

Independent hedge funds such as Nephila Capital are also here to play. It seems quite odd that these people bet big money on something as presumably unpredictable as the weather. The circulations of our atmosphere are a good example of chaos. Who wants to bet big money on pure chaos? Maybe enquiring minds just think too much.

Insurance companies are here because they originated the market. The terms 'insurance' and 'reinsurance' are used here interchangeably because they are both essentially the same thing. Insurance companies sell catastrophe bonds and insurance-linked securities. Although many insurance companies issue catastrophe bonds and related securities, Swiss Reinsurance America Corporation and Munich Reinsurance America are the most prolific.

Many of the same companies which participate in the weather derivatives market also participate in the catastrophe reinsurance market. Since both markets rise and fall with the weather, it makes sense that they would. Here is a partial list of dual market players: Endurance Reinsurance Corporation of America, Nephila Capital, Swiss Re, Willis Group Holdings, and Munich Re.

On a completely unrelated note, industry heavyweight Marsh & McLennan (who owns the industry's biggest American broker Guy Carpenter) had all their World Trade Tower offices totally wiped out on 9/11. You see, Marsh & McLennan occupied floors 93-100. On the day of 9/11, the first plane completely gutted floors 93-99; killing every person on all of those floors.

Maybe somebody wanted to make sure certain people were taken care of. Maybe the target was some people on the 96th floor, which was direct center. Maybe guys from Afghanistan who didn't know how to fly did it. Maybe it was Bigfoot, the Tooth Fairy, or a purple dinosaur. 9/11 was an outside job and chemtrails do not exist. Stop thinking and please return to watching television.

A History of Catastrophe Reinsurance

Following a spate of presumably natural disasters occurring from 1991-1994, climatologist Stanley Changnon (1928-2012) served as the lead author of a 1996 report advocating for something resembling today's catastrophe reinsurance market. Even though Changnon concluded that man-made global warming was probably not to blame, "Impacts and Responses of the Weather Insurance Industry to Recent Weather Extremes" suggests that finance and climatology should work with government in order to provide more protections for those affected by severe storms (catastrophes). This was when the big banks and the reinsurers initially converged and the catastrophe reinsurance market came into its own.

A passage from this report tells the story:

"The major storm losses of 1991-1993 created by 1993 a new level of interest built around a new theme: that the new extremes were a signal of a changed climate. Time [Magazine] and some trade journals carried articles about the hazard upsurge and its possible connection to a greenhouse-induced climate change (Linden, 1994). This concept was actively promoted by

environmental interests who had a stake in the climate change issue and who claimed that the recent upsurge in catastrophes and record losses were 'indicative of a change in climate due to the greenhouse effect' (Leggett, 1993). They were joined by some atmospheric scientists who also claimed climate change was responsible for the upswing in losses since their calculations indicated that the greenhouse change would produce a climate with more storms, higher winds, and longer storm tracks (Rountree, 1994)."

"Leaders in the insurance industry began to consider the issue. Frank Nutter, President of the Reinsurance Association of America stated 'the insurance business is first in line to be affected by climate change' (Linden, 1994). Some insurance leaders, in assessing what factors had caused the recent (post 1990) upsurge in storm losses, included the possibility that climate change was a factor along with demographic shifts, growth of exposure, decaying infrastructure, and poor building codes (Lecomte, 1993; Berz, 1994). Certain insurance leaders claimed that climate change and the increase in storms were related, whereas others were not convinced (Viewpoint, 1995; Stix, 1996). Flavin (1994) addressed the key issues in a thorough analysis noting there had recently been a large number of storms, major recent increases in losses, and a vulnerable industry that became willing to believe that unique circumstance caused by a change in climate had occurred. Deering (1993) noted that those promoting concern over global climate change and a \$1.8 billion U.S. research program, including environmental groups and atmospheric scientists, had acted to get the insurance industry to believe in climate change and thus to become allies on their side in promoting research and policy development relating to climate change. Over the last few years, the greenhouse-induced climate change issue has become a national and international policy issue with scientists, government bureaucrats, and policymakers arguing all sides of the issue (Flavin, 1994; Glantz, 1995)."

This passage continues the story:

"Another financial result of the recent catastrophes was the expansion of the Bermuda-based reinsurance market (Jennings, 1995). The market was originally developed to create capacity and take advantage of the hard casualty market conditions of the 1980s, under the less restrictive regulations of the Bermuda government. After Hurricane Andrew, the Bermuda market saw the arrival of the 'super cat' reinsurers. These new companies were formed with different levels of capital, with most exceeding \$300 million, and having the objective of providing a large participation in property catastrophe reinsurance programs. The capitalization of these companies was developed through public equity markets, private placements and investments by other insurance companies, reinsurance firms, investment banking firms, and insurance and reinsurance brokerage companies."

The report continues:

"CAT's [catastrophe bonds] first started trading in 1992. Initially the traditional insurance and reinsurance market did not know how to react to the product. Segments of the market saw this as an unneeded form of compensation. Many felt that the shortage in catastrophe capacity would be solved in the traditional market, as the pricing of that product improved, and at first,

"However, over the last three years, open interest in these contracts has risen steadily. In April 1993, only 61 contracts traded. By January 1994, open interest was 4,800 contracts, and by August 1994, open interest exceeded 5,800 contracts. These futures contracts trade only on the floor of the Chicago Board of Trade (CBOT)."

Lastly, the report adds:

"In response to the need for increased catastrophe risk capacity, an Exchange has been established in New York. In July 1995, the New York Insurance Department approved the licensing of a risk exchange facility to be domiciled and operated in that state. Catastrophe Exchange (CATEX), licensed as a reinsurance intermediary, was brought into existence through the efforts of the former Insurance Commissioner of New Jersey. It reflects interest in increasing capacity for the Long Island shoreline to obtain coverage against windstorm and beach erosion damage."

For this new CATEX, Enron's now defunct accounting firm Arthur Anderson was slated to, "...establish an index that prices and rates exposures."

Crop insurance

In the 2012 documentary video "Why in the World Are they Spraying?," an independent commodities trader at the Chicago Mercantile Exchange by the name of Michael Agne says that, in combination with weather derivatives and catastrophe reinsurance, traditional crop insurance may be gamed. With foreknowledge of the weather, it is as simple as insuring a crop for more than it would be worth at market, then collecting the insurance money when the crop fails.

Oddly enough, the biggest player in the space is the federal government. Something called the Federal Crop Insurance Corporation operates under the Department of Agriculture's Risk Management Agency. But as we all know, our federal government would never engage in any such thing as insurance fraud. So we should probably look elsewhere.

A Comprehensive Plan

A massive global weather modification endeavor such as the New Manhattan Project requires that all the disparate motives outlined here need necessarily be folded into a comprehensive plan to manage the Nation's and the world's weather resources. This is how every aspect of weather related activity can be managed comparatively and simultaneously. This would be the best way to manage the New Manhattan Project's socio-economic impacts. It is not a surprise that at least one such early study has been undertaken.

The 1966 book "Human Dimensions of Weather Modification" featured a paper by James Hibbs titled "Evaluation of Weather and Climate by Socio-Economic Sensitivity Indices." This paper outlines a comprehensive plan for managing the socio-economic impacts of a national weather modification program.

Under this plan, all socio-economic impacts of weather modification activities are categorized as being applicable to either 'consumers' or 'producers.' Consumers are defined as

"...enhance values generated outside the market place. Personal enjoyment of leisure time and other nonincome producing (in the dollar sense) activities are included. Also included are governmental actions using weather services to maintain or increase health, safety, general welfare, natural resource preservation, etc.."

The paper classifies producers as using weather services:

"...for purposes of enhancing their professional, commercial or industrial activities. Thus, specialized services are used by professional meteorologists, agriculturists, commercial airlines and private business pilots, and marine transportation."

Hibbs then goes on to describe a system of 'measures of benefit' applicable to all the defined groups potentially affected. His paper reads:

"It appears feasible to develop indices suitable for use in decision-making based upon the aggregate of factors discussed in the previous section. A first effort has been made to use the concept of a generalized index of 'weather influence' combined with a dollar-weighted index of 'benefit potential' distributed among various weather influenced activities and within broad geographical areas."

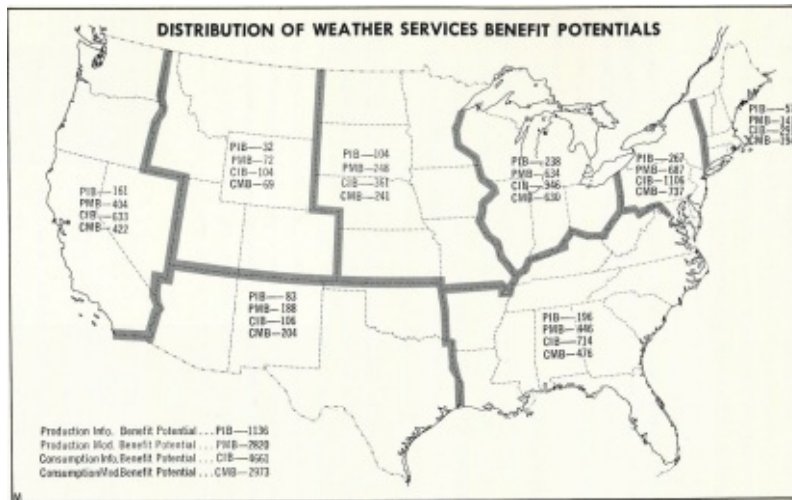
APPENDIX B
DERIVATION OF WEATHER INFORMATION BENEFIT POTENTIALS BY REGIONS

Benefit Measurements	Beneficiary Class												
	General Public	Land Transp.	Air Transp.	Water Transp.	Construction	Water Supply & Control ¹	Energy Prod. & Distrib.	Merchandising	Recreation ¹	Manufacturing	Fishing	Agriculture ²	Forestry ³
1 Influence Index ⁵	10.2	5.8	6.8	6.8	6.8	3.6	5.4	3.6	5.4	3.8	10.0	6.0	6.3
2 Adj. Factor ⁶	1.5	1.5	1.5	1.5	1.5	2.6	2.6	1.9	2.6	1.3			1.5
3 Wages & Salaries ⁷	46.2	1.7	.4	.3	2.7	SOUTHEAST (TABLE 33) ⁸					12.5		1.4
4 Pers. Income (2)(3)	79.0	2.6	.6	.45	4.1	.23	1.6	13.4	.2	16.3	.03	5.5	.2
5 Benefit Potential (1)(4)	714.0	15.1	4.1	2.7	27.9	.61	8.6	55.4	1.1 ¹	29.3	.3 ²	33.9 ²	1.3 ³
6 Wages & Salaries ⁷	29.9	1.2	.15	.1	1.4	.3	4.3			5.5			.7
7 Pers. Income (2)(5)	35.4	1.8	.23	.15	2.1	.1	.8	8.2	.1	7.2	.01	4.6	.1
8 Benefit Potential (1)(7)	361.1	10.4	1.7	.9	14.3	.4 ²	4.3	29.5	.5 ¹	13.0	.1 ²	27.4 ²	.6 ³
9 Wages & Salaries ⁷	74.5	2.2	1.6	.6	4.0		1.8	13.5		24.7			2.6
10 Pers. Income (2)(9)	104.4	3.3	1.5	.9	6.0	.4	2.6	35.7	.5	32.1	.02	1.4	.3
11 Benefit Potential (1)(10)	1105.7	19.1	10.2	5.4	49.8	1.4 ²	14.9	92.5	2.7 ¹	57.8	.2 ²	8.42 ²	1.9 ³
12 Wages & Salaries ⁷	63.9	2.6	.36	.24	3.1		.9	10.8		27.5			.9
13 Pers. Income (2)(12)	92.7	3.9	.5	.4	4.7	.3	2.3	36.5	.3	35.8	.02	3.1	.5
14 Benefit Potential (1)(13)	945.5	22.6	3.4	2.4	32.0	1.1 ²	12.4	73.8	1.6 ¹	64.9	.2 ²	18.62 ²	1.93 ³

Weather sensitivity numerical values

Image source: University of Chicago / James R. Hibbs

The paper then goes on to quantify potential weather modification benefits by dividing the map of the United States into 8 regions. Each region is then assigned a numerical value representing four factors: the potential benefit for producers due to better weather forecasts, the potential benefit for producers due to weather modification, the potential benefit for consumers due to better weather forecasts, and the potential benefit for consumers due to weather modification. These values are to determine where and when different types of weather



Map of U.S. w/ regions & weather sensitivity numerical values

Image source: University of Chicago / James R. Hibbs

"Evaluation of Weather and Climate by Socio-Economic Sensitivity Indices" discloses that the predecessor to NOAA, the Environmental Science Services Administration (ESSA) was developing these actuaries in order to aid ESSA policy and planning decisions. This suggests that NOAA manages the socio-economic impacts of today's New Manhattan Project.

The paper concludes by noting:

"The program would coordinate not only activities and available resources of many ESSA components, but also capitalize upon available resources and experiences within TAD-NBS, Census Bureau, Bureau of Labor Statistics, and NREC-OEP."

Conclusions

Geoengineers will argue that all the motives presented here are precisely why we need a global weather modification project. They will argue that the Earth's resources need to be better managed and that a global weather control program, producing better weather forecasts, allows for that. The truth is that we don't need it or want it and we can't trust the people doing it anyway.

We don't need it. Humanity has been developing quite well for thousands of years without a global weather modification project. We need a clean environment, not one contaminated by geoengineering.

We don't want it. We don't want to breathe in the chemtrail witches' brew and/or get zapped by this Project's electromagnetic rays. Whether or not one realizes what is going on, these things are bad for us and our environment. Stop assaulting us!

We can't trust the people behind it. Does a burglar ask for your permission before he robs your house? No. Does a mad military/industrial complex ask you for permission before they ruin your health and wreck the environment? No, they don't. The people responsible for this New Manhattan Project are not to be trusted. We don't want to do business with them. These claims of deleterious Human health impacts and environmental devastation will be discussed

What we need is a system that does not allow the socio-economic elite to steal and hoard the Earth's wealth as they spray us with chemtrails. We need a system that disallows the type of psychopathic gamesmanship currently going on. We need a system of government that cuts out the middlemen and allows for the delivery of the wealth of the Earth *directly* to the people. We need the unequivocal enforcement of the American Constitution and Bill of Rights. If this is achieved, there will be abundance for all and no want or need for any global weather modification project.

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Chapter 8

BIOLOGICAL IMPACTS

When airplanes routinely dump megatons of toxic garbage into our atmosphere as they have been doing for twenty years now, the most obvious question is: What are the biological impacts? What are the environmental implications of very small aluminum, barium, and strontium particles entering our bodies and fouling our biosphere? As one might guess, the implications are grave. Although the geoengineers will undoubtedly tell us that everything is fine, the best available evidence shows that the general population's health is being negatively impacted, at least hundreds of thousands of people are dying, and that our environment is being summarily wrecked as well. These are the biological impacts of the New Manhattan Project.

Aluminum oxide

As evidenced by voluminous rainwater sample lab reports, the most common chemtrails have been shown to consist mostly of aluminum oxide (Al_2O_3) nanoparticles (ch 5). Aluminum oxide, because it is by far the most prevalent form of aluminum. In fact, when one refers to 'aluminum' they almost invariably mean aluminum oxide (or some other aluminum compound) because free aluminum does not exist in nature.

Aluminum oxide nanoparticles are nasty stuff. A material safety data sheet (MSDS) produced by US Research Nanomaterials, Inc. says that they can cause: respiratory problems, skin irritation, eye irritation, tumors, Alzheimer's, pulmonary disease, neoplasms, and gastric or intestinal disorders. This MSDS also states that people coming in contact with Al_2O_3 nanoparticles should wear a respirator and a fully protective impervious suit.

A 2016 paper titled "Assessing the Direct Occupational and Public Health Impacts of Solar Radiation Management with Stratospheric Aerosols" says that Aluminum aerosols will target these bodily systems: respiratory, cardiovascular, hematologic (blood), musculoskeletal (muscles & bones), endocrine (glands), immunologic, and neurologic (brain). They also say exposure to small atmospheric aluminum particles can cause cancer and death.

It appears coincidental that Wright-Patterson Air Force Base has studied the biological impacts of aerosolized aluminum. In March 2001, the Air Force Research Laboratory published a study titled "In Vitro Toxicity of Aluminum Nanoparticles in Rat Alveolar Macrophages." Scientists exposed rats to airborne, nano-sized aluminum oxide particles. The authors concluded:

"Aluminum oxide nanoparticles displayed significant toxicity after 96 and 144 hours post exposure at high doses (100 and 250 $\mu\text{g/ml}$). Aluminum nanoparticles also showed slight toxicity after 24 hours at high doses (100 and 250 $\mu\text{g/ml}$). When these cells were dosed at lower non toxic levels (25 $\mu\text{g/ml}$) Al 50, 80, 120 nm caused a significant reduction in phagocytosis. Even at a dose as low as 5 $\mu\text{g/ml}$ Al 50 nm still caused a significant reduction.

None of these nanoparticles caused the induction of nitric oxide, TNF-alpha, or MIP-2, important components in inflammatory responses. In summary, based on viability, aluminum nanoparticles appear to be slightly toxic to rat alveolar macrophages. However, there was a significant reduction in phagocytic function of macrophages."

Yeah, they found that even at low doses, forcing rats to breathe in tiny aluminum oxide particles screwed up their lungs. In other news, the geniuses at the World Health Organization found that bullets fired from guns can kill people. The induced lack of phagocytes means that the rats' immune systems (especially in the lungs) became unable to fight off invading organisms.

"In Vitro Toxicity of Aluminum Nanoparticles in Rat Alveolar Macrophages" was but one of a series of studies produced by Wright-Patterson pertaining to aluminum nanoparticle exposure. Wright-Patterson also produced a 2010 study titled "Nanosized Aluminum Altered Immune Function" in which they found that inhaled aluminum nanoparticles impair human immune systems. The authors continued to note that nanoparticles have more deleterious health effects than do larger sized particles.

Curiously, "Nanosized Aluminum Altered Immune Function" also states that we are prone to inhale aluminum nanoparticles because they are used in jet fuels. This information, combined with the allusion to alumina-spiked jet fuels in Raytheon's 1990 "Stratospheric Welsbach Seeding for Reduction of Global Warming" patent and Stanford Penner's comments (ch 4), makes a case for aluminum-spiked jet fuels. All this is extremely interesting when one considers Wright-Patterson's involvement in the New Manhattan Project such as that which is also documented in chapter 4.

A 2009 paper titled "Manufactured Aluminum Oxide Nanoparticles Decrease Expression of Tight Junction Proteins in Brain Vasculature" found that, due to brain cell death, aluminum exposure can cause: Alzheimer's, stroke, reperfusion, hypoxia, mitochondrial disease, and general vascular dysfunction.

In a 2012 paper written by one of the world's top neurosurgeons (now retired), many neurological diseases are linked to aluminum exposure. Russell Blaylock's "Aluminum Induced Immunoexcitotoxicity in Neurodevelopmental and Neurodegenerative Disorders" found a link between aluminum exposure and: Alzheimer's, Parkinson's, Huntington's, Pick's, HIV dementia, multiple sclerosis, viral encephalopathies, chronic traumatic encephalopathy, and amyotrophic lateral sclerosis (ALS / Lou Gehrig's disease). In this paper, Dr. Blaylock also found that aluminum exposure is linked to: impaired cognition, poor memory, impaired learning, poor attention, social withdrawal, irritability, reduced food and water intake and depression. Not only that, but Dr. Blaylock cites another paper here showing how extremely small aluminum particles like the ones used in today's New Manhattan Project can intensify adverse health reactions.



Dr. Russell Blaylock, MD

Image source: unknown

Dr. Blaylock has provided us with some impressive evidence for a causal relationship between chemtrails and Alzheimer's. He tells us that the aluminum oxide nanoparticles we constantly inhale are carried directly to the part of the brain that is first affected by Alzheimer's disease AND most severely affected by Alzheimer's disease. On March 28, 2013 Dr. Blaylock went on the Linderman Unleashed radio program. The host asked him how he became chemtrail aware and Dr. Blaylock said this:

"Well, you know, the connection has been the aluminum in the vaccines. I wrote several articles about the effects of the adjuvants in vaccines including the mercury and the aluminum effect."

"Then I found some articles about the chemtrails and there was a lot being said about it and I wasn't too sure whether it was true or not because in my state we rarely saw them. But as I started looking on the Internet and I would see these states in which there were these criss-cross patterns and they were very tight patterns and geometrical shapes where it was obvious that it was a purposeful covering of the atmosphere with these patterns and the trails were so long. Well now, you know, we're starting to see them in my state and as I look at them, they go from horizon to horizon. Well, you know, I've been alive long enough to know that jets never did that in the past and I see the same patterning effect now where they're criss-crossing; it's an obvious pattern."

"And so I look into the literature and some of the reports and YouTube videos and they were saying that they were dropping as one of the ingredients, aluminum. Well, I had done a fair amount of writing and research on the effect of aerosolized chemicals in the nose when you breathe them. And what we knew was that these particles tend to travel along the olfactory nerves which are the smell nerves in the nose. And it travels directly to the part of the brain that has to do with memory and emotions; the hippocampus, the interlinal area, and the prefrontal cortex. And that you can trace these chemicals traveling along that nerve and depositing in this area of the brain."

"The other thing that was known is that if you aerosolize aluminum, it's one of the metals that passes very easily along this track and directly into the brain. So it bypasses the blood-brain barrier and goes directly into the brain and accumulates. Well, if you do it in animals, it produces lesions, or damage in that area of the brain and the animal will begin to show changes of memory and learning and emotional changes."

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"When we look at people who have Alzheimer's disease, ironically, the highest concentration of aluminum in the brain is that same entry point; what's called the interlinal cortex. And the levels continue to accumulate. So we have compelling evidence that aerosolized aluminum alone will enter the brain and produce damage to that critical area of the brain."

"The worst of all is the nano-sized. Nano-size means you make it such a small particle that it easily penetrates skin. It penetrates barriers in the body that normally metals cannot pass through. When you nano-size and produce these incredibly small particulate matter, it passes very easily. So when you nano-size aluminum and you use it in these aerosols through the nasal passages, it enters the brain in very high concentration and they find that the nano-sized aluminum in the brain is infinitely more toxic."

"Now one of the toxic reactions to aluminum is intense inflammation and activation of cells in the brain that are the immune cells called microglia. Aluminum is a very potent activator of these immune cells and that triggers the release of a powerful substance called glutamate which is an excitotoxin that causes cells to die from an excitatory mechanism. Kinda complex mechanism, but it is a combination of inflammation and excitotoxicity. And I coined the term in the medical literature called immunoexcitotoxicity to describe that process. So, we know that occurs. We know it occurs very easily."

"Now, the reports are coming out now that what they're spraying is nano-sized aluminum and the idea is the old concept of preventing global warming. And they nano-size the aluminum so it will stay in the upper atmosphere longer; supposedly as a reflective compound metal. The problem with that, even from a climatological description is that if you make it into cirrus-like clouds rather than reflecting it upward and out of the atmosphere, it reflects the heat downward and actually causes global warming. So, you know, you could envision that they're doing this on purpose to make the atmosphere heat up so they can say, 'See, the atmosphere is warming up.'"

"But what I'm concerned about mainly is the medical effect and that's because of these very strong connections between aluminum passing through this pathway into the brain [which] is so strongly connected with Alzheimer's disease and other diseases of memory."

"If you're aerosolizing this and spraying literally tons of it over the world, people are constantly breathing that aerosolized, nano-sized aluminum which will easily penetrate filters in your air-conditioning system [and] enter your home. So you're breathing it 24 hours a day; producing high levels of aluminum in this part of the brain. And the consequences could be absolutely devastating. It could cause a huge increase in Alzheimer's disease and inflammatory neurological disorders."

"I watched a YouTube which was a geoengineering conference that the government had put on. And in the conference, one of the questions somebody in the audience asked was: What is the medical effect of spraying aluminum in the atmosphere? And the speaker said, 'Well, uh, we don't really know. But we're in the process of researching that.' Well, of course that was an absolute lie. We do know what it does. But the fact that they were admitting that in fact they were going to spray, they gave it in the future tense that they were going to spray aluminum, the evidence now from the examination by biologists and scientists around the world is that the aluminum level in the lakes and streams and trees is increasing enormously. Some areas have incredible elevations of aluminum in the groundwater and in the vegetation. So if this indeed is happening, we're looking at a medical catastrophe that's worldwide."

There is lots of other highly credible evidence available linking aluminum exposure to the diseases mentioned here. If you want more information, please search the term 'aluminum toxicity.' Expediency demands that we move on.

Barium oxide

Rainwater sample test results from around the world consistently show barium, but not what type of barium. It has to be bonded to another element. Free barium, like aluminum, basically does not exist in nature. Although there are many forms of bonded barium, today's New Manhattan Project probably sprays us with barium oxide (BaO). Barium oxide because a famous Inorganic Chemistry PhD scientist by the name of Dr. Lenny Thyme has identified it.

For a detailed lesson on the chemical composition of chemtrails, watch Dr. Thyme's presentation "The Chemistry of Chemtrails" on YouTube.

<https://www.youtube.com/watch?v=BxCrtsranP8>



Dr. Lenny Thyme

Image source: Truth Media Productions

Barium oxide is highly toxic. A popular barium oxide material safety data sheet produced by ScienceLab.com says:

"Extremely hazardous in case of skin contact (irritant), of eye contact (irritant), of ingestion. Very hazardous in case of skin contact (corrosive), of inhalation. The amount of tissue damage depends on length of contact. Eye contact can result in corneal damage or blindness. Skin contact can produce inflammation and blistering. Inhalation of dust will produce irritation to gastro-intestinal or respiratory tract, characterized by burning, sneezing and coughing. Severe over-exposure can produce lung damage, choking, unconsciousness or death. Inflammation of the eye is characterized by redness, watering, and itching. Skin inflammation is characterized by itching, scaling, reddening, or, occasionally, blistering."

Many other barium oxide MSDSs go on and on in a similar fashion. The Centers for Disease Control and Prevention (CDC) says that barium oxide reacts violently with water.

The aforementioned paper "Assessing the Direct Occupational and Public Health Impacts of Solar Radiation Management with Stratospheric Aerosols" says that barium compounds used as atmospheric sprays target these Human bodily systems: respiratory, gastrointestinal,

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musculoskeletal, renal (kidneys), metabolic, and neurologic. They also say barium compounds dispersed by aircraft as part of geoengineering programs can cause death.

Strontium oxide/hydroxide

Being that the strontium we concern ourselves with is atmospheric, we are probably looking at strontium oxide, possibly strontium hydroxide as well. Strontium oxide because small strontium particles floating around in the atmosphere will tend to bond with the available oxygen. Dr. Lenny Thyme has also identified the strontium from chemtrails to be strontium oxide.

A strontium oxide MSDS from Sigma-Aldrich states that it is corrosive. It causes burns when it comes in contact with the skin and can be absorbed through the skin. If one inhales it, the MSDS states that it is, "...extremely destructive to the tissue of the mucous membranes and upper respiratory tract." The MSDS continues:

"Inhalation may result in spasm, inflammation and edema of the larynx and bronchi, chemical pneumonitis, and pulmonary edema. Material is extremely destructive to tissue of the mucous membranes and upper respiratory tract, eyes, and skin."

The Sigma-Aldrich MSDS finishes up by noting that the chemical, physical, and toxicological properties of strontium oxide have not been thoroughly investigated.

Strontium hydroxide is even worse. Being that there is lots of water in the atmosphere, the atmospheric strontium oxide produced as part of the New Manhattan Project may react with it and form the extremely caustic strontium hydroxide. Not only that, but don't forget that our bodies are comprised of mostly H₂O. Strontium oxide in the atmosphere and inside of us has lots of opportunities to become strontium hydroxide.

The Sigma-Aldrich MSDS cautions potential users to never expose strontium oxide to water because it reacts violently.

The aforementioned PhD scientist, J. Marvin Herndon, has declared common chemtrails to be coal fly ash. It is interesting to note that a form of strontium is a component of coal fly ash and studies have been done concerning exposure to the strontium found in fly ash. The CDC writes:

"Rats were exposed to aerosols of ⁸⁵Sr [strontium] carbonate, phosphate, fluoride, oxide, or titanate (particle sizes and doses not specified) (Willard and Snyder 1966). Greater than 99% of the initial lung burden of ⁸⁵Sr was cleared from the lung 5 days after inhalation of the carbonate, phosphate, fluoride, or oxide, whereas 60% of the ⁸⁵Sr remained in the lung after inhalation of the more insoluble strontium titanate."

"In rats exposed to airborne fly ash (sieved to have a particle diameter of distribution of 90% less than 20 µm) for 6 hours, strontium was eliminated from the lung with a half-time of 23 days (observations were made for 30 days) (Srivastava et al. 1984b). One day after the exposure, the tissue:plasma strontium concentration ratios were 0.3–0.5 in the liver, kidney, small intestine, and heart. The report of this study does not indicate whether whole-body or nose-only exposures were utilized in the study; therefore, it is not possible to know for certain how much of the absorption may have resulted from ingestion of fly ash deposited on the animals. Furthermore, given the relatively large particle size of the fly ash, it is likely that

downloaded from *deposition in the respiratory tract was largely in the tracheobronchial and nasopharyngeal region, from which the strontium may have been cleared mechanically to the esophagus and swallowed. Nevertheless, studies in which ⁸⁹Sr-enriched fly ash was instilled into the trachea of rats indicate that strontium in this form was partly absorbed and appeared in plasma and other tissues within days of the exposure (Srivastava et al. 1984a)."* sprayed to death.com dontbetheirfool.com

The CDC goes on to note that the fly ash strontium administered to the lab rats ended up mostly in the bones. After that, it appeared in (in order of prevalence): muscle, skin, liver, and kidneys.

Those heady days of just dumping dry ice into clouds are long gone.

Respiratory Diseases

The inhalation of any aerosolized particulate matter tends to have harmful human health impacts. This is not a matter of debate. Common sense and many studies show this. In fact, those great progenitors of the New Manhattan Project, the Atomic Energy Commission (which became the Department of Energy), helped produce a 1964 book titled "Pulmonary Deposition and Retention of Inhaled Aerosols."

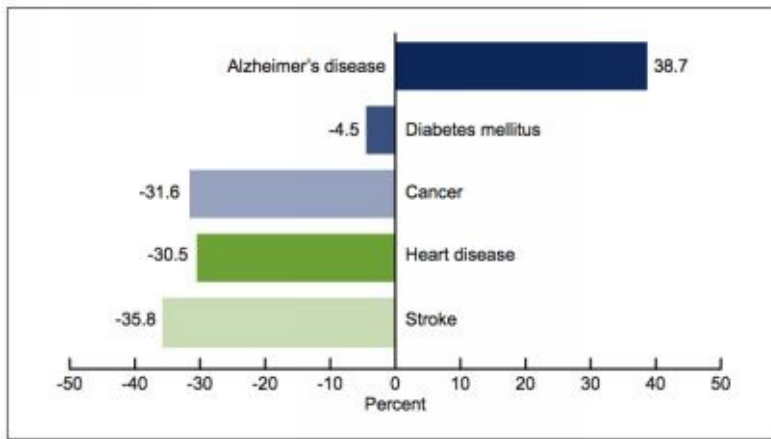
Diseases associated with particulate matter inhalation include: asthma, chronic sinusitis, chronic bronchitis, chronic obstructive pulmonary disease (COPD), emphysema, and lung cancer.

Rates of associated diseases

As this article has explained, chemtrails are associated with a great many diseases. As we have been assaulted by this New Manhattan Project for about twenty years now, it is no surprise that the best available data shows rates of many associated diseases going up significantly.

Historical rates of every disease associated with chemtrail spray are not presented here due to a lack of CDC data. Every associated disease with available CDC data is presented.

Let's start with the most strongly correlated disease: Alzheimer's. According to the CDC, from 2000 to 2010, while deaths from other diseases such as cancer, heart disease, and stroke decreased significantly, Alzheimer's deaths increased 39%. They write, "In 2010, Alzheimer's disease was the underlying cause for a total of 83,494 deaths and was classified as a contributing cause for an additional 26,488 deaths. Mortality from Alzheimer's disease has steadily increased during the last 30 years." Knowing what we now know, it is reasonable to assume that chemtrails have contributed greatly to this.



SOURCE: National Vital Statistics System, Mortality.

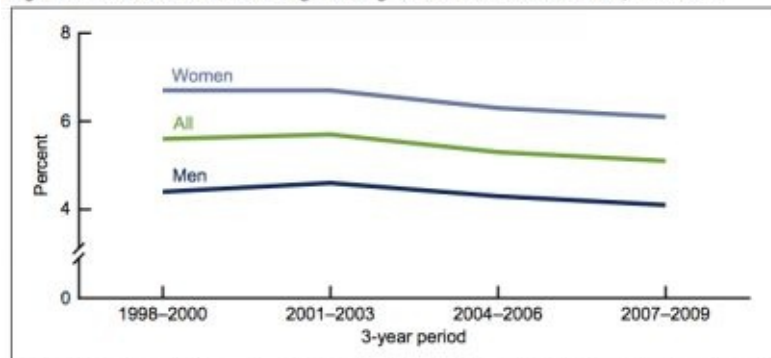
Image source: The Centers for Disease Control and Prevention

Not only have the rates of adult Alzheimer's disease been increasing, but a disease that used to be relegated to old people is now showing up in children. Reports have been pouring in from around the world documenting research into Niemann Pick Type C disease, also known as 'childhood Alzheimer's.'

Dr. Blaylock says that there is also a correlation between aluminum exposure and Parkinson's. The CDC says that the rate of Parkinson's disease went from about 4.5 per 100,000 people in 1995 to a little over 6 per 100,000 people in 2003. If you will recall, the large-scale spraying started in about 1995.

Although the CDC found that the rate of chronic pulmonary disease (COPD) was stable between 1998 and 2009, they also found that the prevalence of asthma rose during a similar period (between 2001 and 2010).

Figure 1. Prevalence of COPD among adults aged 18 and over: United States, 1998–2009

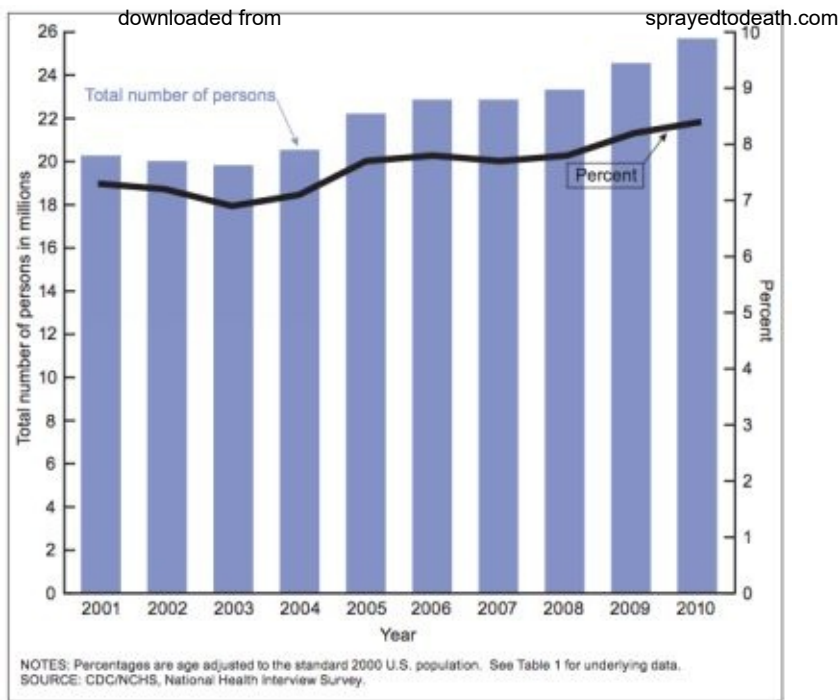


NOTES: COPD is chronic obstructive pulmonary disease. Age-adjusted to the 2000 U.S. standard population. Access data table for Figure 1 at: http://www.cdc.gov/nchs/data/databriefs/db63_tables.pdf#1.

SOURCES: CDC/NCHS, Health Data Interactive and National Health Interview Survey.

Rate of COPD (1998--2009)

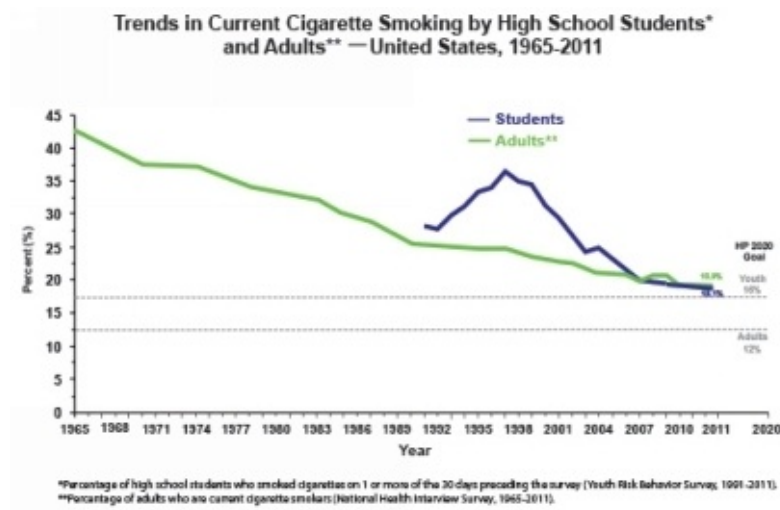
Image source: The Centers for Disease Control and Prevention



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Asthma prevalence (2001--2010) Image source: The Centers for Disease Control and Prevention

The CDC also reports that between 1995 and 2011, smoking went from 35% among students and 25% among adults to 18% and 19% respectively. Concurrently, the CDC reports significant drops in the rate of lung cancer between 2002 and 2011.



Rate of smoking (1965-2011)

Image source: The Centers for Disease Control and Prevention

With these big drops in the rate of smoking, one might assume that the rate of COPD and asthma would go down as well instead of remaining stable. Chemtrails probably kept the rate of COPD stable while contributing to the prevalence of asthma. Lung cancer probably decreased because chemtrail exposure has not been as carcinogenic for your lungs as smoking.

It's good to know that there are more carcinogenic things for your lungs than routine

chemtrail exposure. Between 2002 and 2011, smoking cigarettes apparently fit that category. Moderate chemtrail exposure is probably better for you than inhaling burning plutonium too, but that doesn't mean it's ok.

Early exposures

Although it appears that our bodies have been finding ways to cope with this daily onslaught of aerosolized metals, around the times when people were first exposed, emergency rooms filled up. William Thomas' groundbreaking 2004 book "Chemtrails Confirmed" chronicles many of these examples.

Thomas recounts the words of a registered nurse:

"Approximately December 16th or the 17th, while traveling north, I could see 'stripes' in the sky. It appeared as if someone took white paint on their fingers and from north to south ran their fingers through the sky. These contrails were evenly spaced and covered the whole sky! They covered it completely! When I was finished with the next visit, approximately 45 minutes, I came out of the house and found the whole sky was white. There was no definition in cloud pattern."

"Within the 24 hours I became very weak, feverish, and my asthma began to act up. I didn't think too much about it, until my boyfriend told me that many in his family started coming down with the same complaints. I also started noticing a lot of my patients and their family members were coming down with these symptoms at the same time. In our area we have one main hospital which I was the Supervisor of for four years. I worked there a total of six years. I stay in close contact with the nurses and physicians and am planning on investigating into this more. At that time, they complained of being extremely busy with respiratory diagnoses."

Another passage from "Chemtrails Confirmed" recounts the experiences of a restaurant owner from Oklahoma. The passage reads:

"On January 24, 1999 [Pat] Edgar reported that on 'Monday, Tuesday and Wednesday and Thursday of last week, we were really hit hard with the contrails. I mean real bad. Everybody in this town is sick right now; sicker than a damn dog. It's all in their head and their sinuses, and it hangs in the throat, (sore necks), ears ringing."

"Edgar added: 'Some customers that frequent our business have stated that they have been to the doctor and the offices have been full of sick people. Same thing at the Indian clinic.'"

"People have to wait for hours because the waiting room is full. Some people have reported being on their third and fourth round of antibiotics and they are still ill. We noticed excessive contrails Thursday, Feb. 11th."

"Edgar became ill the following day, and visited a doctor. From a friend he learned that Sparks regional hospital had over 500 people seeking medical attention at the emergency room for flu, or flu-like symptoms."

Others appearing in Thomas' book tell similar stories.

Bodily contamination testing

When we ingest aluminum, some of it eventually comes out in our hair and fingernails. There are many reports online of people finding high levels of chemtrail toxins in their hair and fingernails. Certain laboratories can analyze hair and fingernail samples for aluminum and other substances.

If you are curious about your bodily contamination, one may get their hair tested by the Great Plains Laboratory or Analytical Research Labs. You can find their websites online.

<http://www.greatplainslaboratory.com/>

<http://www.arlma.com/>

Biospheric implications

There is evidence that chemtrails are changing soil pH. This could be very bad for our biosphere.

As mentioned in the first chapter, anti-geoengineering activist Francis Mangels has a Bachelor of Science in Forestry from the International School of Forestry at Missoula, spent 35 years with the U.S. Forest Service as a wildlife biologist and worked several years with the USDA Soil Conservation Service as a soil conservationist. In order to document the effect of chemtrail spray upon soil pH, Mr. Mangels wrote on Oct. 30, 2009:

"The soil scientists from the USDA Soil Conservation Department visited private property east of Shasta Lake, California, on Oct. 27, 2009. Mr. Bailey, Komar, and Owens tested the pH with standard federal meters. All agreed the pH should be 5.5."

"Under Douglas fir, the ph was 7.4, astoundingly basic for that habitat."

"Under Poderosa pine, at the precise soil-needle interface, I would expect a pH of 5. At that point, Bailey's meter showed 6.5. This is high for a microhabitat that should be very acid. Old soil surveys indicate this soil should be very acid, around pH of 5.5."

"I bought a house in Mt. Shasta old black oak/pine pasture in 2002, tested the pH at below 6, good for vegetable gardening. It was a major reason for purchase, and proceeded with highly acid composting of leaves and grass to drive the pH down or at least keep it low, as every master gardener knows. I added a touch of sulphur and avoided wood ash to insure acidity, and proceeded to teach organic gardening courses out of my yard through COS. The pH tests were an embarrassment because now my garden is pH 7, sometimes higher. This is the opposite of what should happen."

"The pH meter of Jon McClellan proceeded to show pH in McCloud gardens also running close to 7 or 8, which is too high for heavy organic mulch with no ashes. General lawns were also running over pH 7 under oaks and pines and fir trees. This is contrary to everything I learned in college and the Soil Conservation Service for 35 years. The old data sheets say these soils should be running at a pH of 5-6."

In the movie "What In the World Are They Spraying?," Mr. Mangels says that when soil pH changes, soil arthropods (a vital link in our ecosystem) start to go away.



Francis Mangels

Image source: unknown

Spraying vast regions of the Earth with megatons of toxic metals is probably contributing to the alarming rate of animal species extinction. The Center for Biological Diversity reports that:

"Scientists estimate we're now losing species at 1,000 to 10,000 times the background rate, with literally dozens going extinct every day. It could be a scary future indeed, with as many as 30 to 50 percent of all species possibly heading toward extinction by mid-century."

Reports of massive plant and animal die-offs potentially due to chemtrails are widespread.

Although, to the author's knowledge, not a lot of firm data has arisen yet, we should be very concerned about the effects of chemtrail spray upon the Earth's flora and fauna. This will be a large area of study going forward.

Electromagnetic fields

Besides being forced to inhale aluminum, barium, and strontium, we are also currently subjected to another, potentially harmful component of the New Manhattan Project; electromagnetic energy.

Electromagnetic fields, which are produced by electromagnetic energy, are known to be capable of damaging our DNA. DNA provides instructions for how new cells are to grow. When our DNA is damaged, growing cells lose their instructions and instead of growing the way they should, they may grow incorrectly and cancerously or not grow at all. Although it has not been firmly established in mainstream science that relatively weak, sustained exposures to electromagnetic fields cause cancer, there is a growing body of evidence suggesting that they do.

Some famous career scientists like Barrie Trower are already asserting a causal relationship and declaring a cover-up. He has done many interviews which appear on YouTube. In one particular video titled "Microwave Weaponry's Use on People Explained by Dr. Barrie Trower," he asserts this cover-up.

<https://www.youtube.com/watch?v=aMMEQNnSZIo>

It's not only the New Manhattan Project generating environmental electromagnetic energy

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waves, though. Electromagnetic energy is described by my scientific advisor Ginny Silcox (a senior-level R&D electromagnetics technician) as, "...the very fabric of space and time." In other words, electromagnetic energy waves and electromagnetic fields are absolutely everywhere. All electronic devices and the power grid itself generate them; not to mention all the cellular and WiFi signals flying all over the place. The Earth, the Sun, our solar system, and the universe are constantly generating incredibly massive quantities. Sometimes these fields are of frequencies and types that are beneficial to Humans, sometimes they are not. In our environment, different electromagnetic fields are constantly overlapping and thus either helping to amplify each other or helping to cancel each other out.

Being that the people running the New Manhattan Project have not informed us of the specific frequencies, types, and intensities of electromagnetic energy they are employing, it is impossible to tell whether or not we are being negatively impacted. Coupled with the fact that, regardless of the New Manhattan Project, we are constantly exposed to a mishmash of hundreds, sometimes thousands of electromagnetic signals and fields every day, it is a fool's errand, at this point, to speculate.

Silver iodide

The conventional weather modification industry has been openly spraying vast areas of the United States with silver iodide since 1947. The super-secret New Manhattan Project only started spraying us with aluminum, barium and strontium around 1996. Hence, the vast majority of the weather modification and atmospheric sciences literature is geared towards the dispersion of silver iodide. Although silver iodide is not what is used in today's New Manhattan Project, as a side issue, let's take a look at the scientific evidence (or lack thereof) concerning the biological impacts of silver iodide. Past is prelude.

Considering that this issue is the most obvious question and of grave importance, the lack of publicly available research pertaining to the biological impacts of silver iodide dispersion is quite shocking. You may read the 746 page, 1978 Congressional Research Service report on weather modification. You may read all 21 of the Interdepartmental Committee for Atmospheric Sciences reports or all of the National Science Foundation annual weather modification reports. You may read scores of weather modification reports, book after book, and myriad of reports and papers about weather modification and the atmospheric sciences. But nowhere in any of these documents will you find an adequate examination of biological impacts and specifically human health effects caused by atmospheric silver iodide. Only after reading a stack of documents about a yard high, did your author finally find a report containing an adequate discussion of the human health effects of exposure to silver iodide.

A popular silver iodide material safety data sheet describes silver iodide as, "Hazardous in case of skin contact (irritant), of eye contact (irritant), of ingestion, [and] of inhalation." Unbelievably, much of the toxicology information is NOT AVAILABLE. They've been spraying us with this stuff since 1947 and the toxicology information is not available?!

Equally as unbelievable, to date, no publicly available long-term studies have been done.

It is widely suggested that exposure to silver iodide causes argyria; characterized by a blue-grey discoloration of the eyes, skin, mucous membranes, and internal organs. Another MSDS produced by Fisher Scientific reads:

"Chronic ingestion of iodides during pregnancy has resulted in fetal death, severe goiter, and cretinoid appearance of the newborn. Prolonged exposure to iodides may produce iodism in sensitive individuals. Symptoms could include skin rash, running nose and headache."

A 1966 National Science Foundation report stated, "The present state of knowledge places uncomfortable limits on the prediction of the biological consequences of modifying the weather."

A 1969 Bureau of Reclamation report noted, "There has so far not been a single biological field study completed and reported in the literature specifically designed to identify any aspect of the ecological effects of weather modification."

A 1972 study conducted by the Council on Environmental Quality stated, "Projects may have significant adverse environmental effects, ranging from immediate hazards to life and property to long-term alterations in land use patterns and threats to ecological systems."

The vast majority of research done in this area does not even concern itself with Human health impacts or biospheric contamination. Rather, it focuses on the ancillary issue of how plants and animals may be affected by either more or less rainfall.

The work that is publicly available is mostly cursory. In the vast majority of cases where the subject is even so much as broached, the literature quickly follows with assurances that there are probably no adverse effects and that further study is not necessary.

Thankfully, some research indicating silver iodide's negative biological impacts has surfaced. It is not good news, but we need to hear it. Evidence suggests that it is exceptionally bad for organisms further down the food chain. The aforementioned 1969 Bureau of Reclamation report also noted:

"Silver compounds are much more toxic to fish than to terrestrial vertebrates. Some of the higher concentrations of Ag recorded in precipitation from seeded storms are comparable to the lowest concentrations lethal to fish in the short run. In one set of experiments, sticklebacks were able to withstand no more than 0.003 ppm Ag in water at 15-18° C. The fish survived one week at 0.004 ppm, four days at 0.01 ppm, and but one day at 0.1 ppm."

This 1969 report also found silver to be, "...highly toxic to microorganisms...." The report continues:

"Many investigators have placed Ag at or near the top of the list among heavy metals in toxicity to fungi, slime molds, and bacteria. Water containing 0.015 ppm Ag from contact with specially prepared metal has exhibited bacteriocidal activity. 0.006 ppm Ag has killed E. coli in 2 to 24 hours, depending on numbers of bacteria. Bacteriocidal activity in this context usually implies death of 9.99% or so of the cells present."

Killing fungi, E. coli, and slime molds may sound like a good thing. But in the context of our complex and interdependent biosphere, it is not. Our overall ecosystem needs slime molds and the like. These things are vital links in the food chain.

Why does the conventional weather modification and atmospheric sciences literature not sufficiently address the issue of silver iodide's biological impacts? They wouldn't have anything

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to hide, would they? That which is not disclosed is often more incriminating than that which is. Although today's Weather Modification Association claims it is completely safe, they have a conflict of interest and they do not have data to sufficiently answer the most obvious question.

The bottom line is that there is evidence showing that silver iodide has negative biological impacts. We cannot know for sure that spraying this stuff is safe if no public long term studies have been done.

Conclusions

Although it is currently not feasible to completely assess the damage to Earth's biosphere caused by this New Manhattan Project, the available evidence does not paint a pretty picture. This is an area of study which should be fleshed out over the coming years. This body of work is bound to be vastly expanded and updated in the coming years and decades.

We have seen already that the main ingredient, aluminum oxide, is very toxic to Humans. The rates of specific diseases linked to aluminum oxide exposure are on the rise.

Barium oxide, strontium oxide, and strontium hydroxide are absolute nightmares.

Many people have become very sick when first exposed.

There are very troubling things happening in our biosphere.

The historical precedent set by the conventional weather modification industry mandates irresponsibility.

When geoengineers say that their activities are harmless, we have plenty of good reasons to not believe them.

notes

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Chapter 9

OTHER AGENDAS

So far we have only discussed the New Manhattan Project in the context of its most obvious aspect: weather control. Just in that aspect alone, the New Manhattan Project is easily the biggest scientific endeavor in Human history. Believe it or not, it appears that quite a few other massive projects have been piggybacked upon this global weather modification scheme.

They are already spraying us with megatons of aluminum, barium, and strontium. That right there is enough to put people away in prison for the rest of their lives, or worse. So why stop there? The people responsible for the New Manhattan Project (NMP) may have gone for broke.

What else might one accomplish by spraying stuff all over God's creation and/or shooting electromagnetic energy all over the place? What else have these mad scientists been up to? As opposed to the more understandable weather modification aspects of the NMP, this chapter examines the NMP's more unbelievable aspects. From mind control to Morgellons to Nikola Tesla's death ray, and more, this chapter examines the New Manhattan Project's other agendas.

Mind control

Other than weather modification, the most probable purpose of the New Manhattan Project is mind control. It is well documented that certain types of electromagnetic energy waves can remotely manipulate people's thoughts and feelings. The relevant field here is known as 'psychotronics' and 'psychotronic weaponry.' An overview is presented here with an emphasis upon the potential use of these technologies as part of the New Manhattan Project.

Not only can electromagnetic frequencies influence one's mind, they can also affect the rest of our bodily functions. Research by Dr. Robert Becker, Dr. Thomas Valone, and many others have strongly correlated the Human body's functions to electromagnetic fields. This correlation is due to the fact that the Human body is a complex bioelectric organism highly susceptible to electromagnetic energies and fields.

The ionospheric heaters used as part of today's New Manhattan Project can produce the signals that affect our moods, thoughts and bodily functions. Not only that, but two of the most important New Manhattan Project scientists (Bernard Vonnegut and Gordon J.F. MacDonald) were into it.

Project Bassoon/Shelf/Sanguine/Seafarer/ELF (ch 3) was probably the beginning of the development of these psychotronic technologies as part of the NMP. By 1989, the Navy described the project as "fully operational." In 2004, the project was technologically obsolete, so it was subsequently defunded and shut down. These projects and facilities in Wisconsin and Michigan were officially not about mind control; only naval communications. But these projects were the first inkling of what was to come.

Some years after the beginnings of project Bassoon/Shelf/Sanguine/Seafarer/ELF, in 1961, along with two other scientists, that great pioneer of the New Manhattan Project's weather

modification aspects, Bernard Vonnegut also laid the groundwork for future mind control experiments. He conducted experiments pertaining to the effects of electromagnetic energy, propagated through an aerosol, upon the effigy of a man's head. In their 1961 report titled "Research in Electrical Phenomena Associated with Aerosols," the trio wrote:

"One can make an estimate of the concentration of the field around an object or man by considering the potential in space in which it exists. For example, in a field of $100 \text{ volts cm}^{-1}$ a man's head is in a region where the potential is about 20,000 V with respect to ground. Because of the relatively high conductivity of the body the man's head is at ground potential and therefore a corresponding amount of charge has passed from the ground up to his head. If we approximate the head as a sphere of 10 cm radius, its capacity is about 10^{-11} farads so the induced charge on it is about 2×10^{-7} coulombs and the field at its surface is approximately $2000 \text{ volts cm}^{-1}$. Accordingly, we see that the field and hence the rate of aerosol deposition should be about 20 fold greater on the man's head than on the ground."

Seven years later, another great scientific champion of the New Manhattan Project, Dr. Gordon J.F. 'How to Wreck the Environment' MacDonald wrote:

"The enhanced low-frequency electrical oscillations in the earth-ionosphere cavity relate to possible weapons systems through a little-understood aspect of brain physiology. Electrical activity in the brain is concentrated at certain frequencies, some of it extremely slow, a little around five cycles per second, and very conspicuous activity (the so-called alpha rhythm) around ten cycles per second. Some experiments have been done in the use of a flickering light to pull the brain's alpha rhythm into unnatural synchrony with it; the visual stimulation leads to electrical stimulation. There has also been work on direct electrical driving of the brain. In experiments discussed by Norbert Wiener, a sheet of tin is suspended from the ceiling and connected to a generator working at ten cycles per second. With large field strengths of one or two volts per centimeter oscillating at the alpha-rhythm frequency, decidedly unpleasant sensations are noted by human subjects."

"The Brain Research Institute of the University of California is investigating the effect of weak oscillating fields on human behavior. The field strengths in these experiments are of the order of a few hundredths of a volt per centimeter. Subjects show small but measurable degradation in performance when exposed to oscillating fields for periods of up to fifteen minutes."

"The field strengths in these experiments are still much stronger, by a factor of about 1000, than the observed natural oscillations in the earth-ionosphere cavity. However, as previously noted, the intensity of the natural fluctuations could be increased substantially and in principle could be maintained for a long time, as tropical thunderstorms are always available for manipulation. The proper geographical location of the source of lightning, coupled with accurately timed, artificially excited strokes, could lead to a pattern of oscillations that produced relatively high power levels over certain regions of the earth and substantially lower levels over other regions. In this way, one could develop a system that would seriously impair brain performance in very large populations in selected regions over an extended period."

"The scheme I have suggested is admittedly far-fetched, but I have used it to indicate the

rather subtle connections between variations in man's environmental conditions and his behavior. Perturbation of the environment can produce changes in behavior patterns. Since our understanding of both behavioral and environmental manipulation is rudimentary, schemes of behavioral alteration on the surface seem unrealistic. No matter how deeply disturbing the thought of using the environment to manipulate behavior for national advantage is to some, the technology permitting such use will very probably develop within the next few decades."

The mind control technologies detailed here by MacDonald have been in development by the Stanford VLF Group.

A 1976 U.S. patent by the title "Apparatus and Method for Remotely Monitoring and Altering Brain Waves" details how exactly that is done. The patent reads:

"The present invention relates to apparatus and a method for monitoring brain waves wherein all components of the apparatus employed are remote from the test subject. More specifically, high frequency transmitters are operated to radiate electromagnetic energy of different frequencies through antennas which are capable of scanning the entire brain of the test subject or any desired region thereof. The signals of different frequencies penetrate the skull of the subject and impinge upon the brain where they mix to yield an interference wave modulated by radiations from the brain's natural electrical activity. The modulated interference wave is re-transmitted by the brain and received by an antenna at a remote station where it is demodulated, and processed to provide a profile of the subject's brain waves. In addition to passively monitoring his brain waves, the subject's neurological processes may be affected by transmitting to his brain, through a transmitter, compensating signals. The latter signals can be derived from the received and processed brain waves."

In 1978, electromagnetics expert Robert C. Beck penned a paper titled "Mood Modification with ELF Magnetic Fields" in which he writes:

"Coherent ELF energies have the unique and interesting property of almost lossless propagation within the earth-ionosphere cavity waveguide, and attenuation of these signals due to distance from transmitter sites is negligible. Power losses are .8 dB per Mm (million meters). The magnetic vectors, unlike electrical (E-wave) components, permeate any substance and cannot be effectively shielded, even by iron, mu-metal, lead, copper, 'Faraday cages,' etc."

"The established physics of radio propagation therefore suggests that vast geographical areas can be readily mood-manipulated by transmissions of EM energy within the earth-ionosphere cavity waveguide."

The 1986 book "Low-Intensity Conflict and Modern Technology" features a paper by Navy Captain Paul E. Tyler titled "The Electromagnetic Spectrum in Low-Intensity Conflict." This paper is all about using electromagnetic energy against an enemy's mind. Shortly after referencing a Southwest Research Institute document speaking to the ability of radiofrequency radiation to, "...completely interrupt mental functioning..." and, "...sensitize large military groups to extremely dispersed amounts of biological or chemical agents to which the unirradiated population would be immune.," Captain Tyler writes:

"Some of these potential uses include dealing with terrorist groups, crowd control, controlling breeches of security at military installations, and antipersonnel techniques in tactical warfare. In all of these cases the EM systems would be used to produce mild to severe physiological disruption or perceptual distortion or disorientation. In addition the ability of individuals to function could be degraded to such a point that they would be combat ineffective. Another advantage of electromagnetic systems is that they can provide coverage over large areas with a single system. They are silent and countermeasures to them may be difficult to develop."

The 1995 paper "On the Possibility of Directly Accessing Every Human Brain by Electromagnetic Induction of Fundamental Algorithms" by Professor Michael A. Persinger, PhD says that relatively weak atmospheric signals (such as those used for cell phone communications) can have a great influence upon the way people think and feel.

1999's U.S. patent "Magnetic Excitation of Sensory Resonances" speaks to a device which can produce electromagnetic fields designed to aid, "...relaxation, sleep, or arousal, and clinically for the control of tremors, seizures, and emotional disorders." The same inventor, Hendricus Loos was granted a similar 2000 patent titled "Electric Fringe Field Generator for Manipulating Nervous Systems." Loos again was granted a 2001 U.S. patent titled "Remote Magnetic Manipulation of Nervous Systems" which describes a small, portable battery-powered device which can manipulate a subject's nervous system from several hundred meters away.

A most recent addition to this body of evidence is very thorough. Michael Aquino, PhD penned a 2013 tome titled "Mind War" in which he writes:

"EMR [electromagnetic radiation] in the brain occurs in waves measured according to cycles per second (Hz). 1-3 Hz = delta waves, characteristic of deep sleep. 4-7 Hz = theta waves, characteristic of high emotion, violence, and frustration. 8-12 Hz = alpha waves, characteristic of meditation, relaxation, and 'searching for patterns.' 13-22 Hz = beta waves, characteristic of frontal brain activity, deliberate effort, and logical thought."

He failed to mention gamma waves (22-80 Hz) which are produced by the brains of experienced meditators and are associated with enhanced neuro-plasticity (brain changes). These frequency ranges often vary slightly according to different experts. Mr. Aquino continues:

*"Brain waves are subject to the principle of resonance. Energy-waves reaching the brain through **any** medium - eyes, ears, or flesh - will tend to induce the brain-waves to cycle at the **same** wavelength."*

A Human brain resonating with externally produced energy waves is known as brain 'entrainment.'

He then goes about describing how this knowledge might be applied to a 'Mind War' scenario:

"Brainwave resonance ('BWR') is significant to SLIPC [subliminal involuntary psycontrol] in both passive and active contexts. Passively a human-interactive environment may be permeated with EMS [electromagnetic spectrum] waves at one or more of the BWR ranges, inclining those within it to their induced characteristics without their conscious awareness. Attempting a relaxed, pleasant, cooperative discussion of a mutual problem is more possible in an alpha BWR than in a non-BWR one, and much more possible than in a beta one. Trying to accomplish anything complex or create immersed in delta is exhausting and fruitless."

Lastly, Dr. Aquino discloses how these energies might be applied remotely:

"Active employment of BWR utilizes frequency generators to project desired BWR into a MW [mind war] operational environment, to adjust the emotions and awareness of all individuals therein. Such generators may be strategic satellite-based platforms which transmit BWR both directly and through intrusion into existing, localized electronic media systems. BWR can, for instance, be inserted into the Internet to be passively and undetectably (absent such sensors) received and radiated by any accessing device, from television station to desktop computer or cellular telephone."

The U.S. patent "Nervous System Manipulation by Electromagnetic Fields from Monitors" supports Aquino's assertions.

Michael Aquino is a very interesting character. As of Jan. 1, 2015, his extremely extensive bio notes his latest position as Lt. Colonel, Psychological Operations, First Special Forces Regiment, U.S. Army. He has since ~~been sheep-dipped~~ retired from this position. He is a Knight Eagle of the Boy Scouts of America. His PhD dissertation was on the neutron bomb. He has served as a 'Space Activities Officer.' He has been given many military decorations and awards. He goes by the title of the 13th Baron of Rachane. He writes that he is a first degree satanist, a second degree warlock, and the high priest of the Temple of Set.

Those last few distinctions are the ones which have given him the most notoriety. The Temple of Set is a satanic church operating in the author's hometown of San Francisco, CA. San Francisco is also where Dr. Aquino says he lives. You can visit the Temple of Set website... if you dare:

<https://xeper.org/>

In the late 1980s, Dr. Aquino became embroiled in a highly publicized satanic ritual abuse scandal which, among other things, landed him on the *Oprah Winfrey Show* and the *Geraldo Rivera Show*. These interviews are available on YouTube. He published a 2014 book all about it titled "Extreme Prejudice: The Presidio 'Satanic Abuse' Scam."



Michael A. Aquino

Image source: Michael Aquino

Voice to Skull

Making people hear things that no one else around them can hear through the use of atmospheric radio waves is called 'voice to skull' technology. This technology involves beaming sounds and speech directly into a subject's head. This technology is well documented and well known. It has been demonstrated in many movies and television shows such as the movie "Kingsman: The Secret Service" and the TV show *The X-Files*. The New Manhattan Project's ionospheric heaters can do this.

An early book titled "Microwave Auditory Effects and Applications" by James C. Lin, PhD revealed the method. 1989's U.S. patent #4,877,027 "Hearing System" defines this technology. Many scientific papers on the subject are available.

Voice to skull technology has been weaponized into the Navy's MEDUSA program. Subjects assaulted with this weapon are temporarily incapacitated by extremely uncomfortable sounds others nearby cannot hear. There is a Wikipedia listing.

Light from the gods

My science advisor Ginny Silcox mentions current research into how ionospheric heaters such as HAARP could be used in combination to produce lightning or lightning-like energy beams capable of completely destroying individuals, buildings or large areas. This type of technology was first hypothesized by Nikola Tesla in 1934 and has been referred to as his 'death ray.' Today, people more commonly refer to this type of technology simply as lasers.

The aforementioned Jason group was working on something similar in 1963. Their 'charged particle beam' program was called Seesaw.

There are a few ways Tesla's death ray might be made to appear like a lightning bolt. This may be accomplished by tapping into the ionosphere, generating it independently, or a combination of both.

The ionosphere (about 50-375 miles above earth's surface) is home to Earth's auroral electrojet. The auroral electrojet is comprised of extremely powerful magnetic energy encircling our planet. If lightning taps into that power by creating a circuit from the auroral electrojet down to the Earth, it will be incredibly powerful.

This may happen naturally. A 1982 article co-written by the great New Manhattan Project progenitor Bernard Vonnegut recounts the experiences of pilots who have witnessed lightning extending upwards, above storm clouds, presumably to the ionosphere.

Man might also make this happen. It is conceivable that the New Manhattan Project's ground-based ionospheric heaters (possibly in conjunction with other, similar space-based antennas) could induce lightning from the ionosphere. These antenna arrays could create a conductive path known as a 'waveguide' which would cause the ionosphere's energy to flow down to Earth. These waveguides can also direct the energy more accurately. The metals found in today's chemtrails may allow for better propagation of these energy waves. The Stanford VLF Group has been active in this area.

Tesla's death ray may also be entirely man-made. As part of the proposed overhaul of Air Force (USAF) operations outlined in the aforementioned 1996 Air Force 2025 documents, the UASF produced a paper titled "Space Operations: Through the Looking Glass (Global Area Strike System)." If you will recall, Air Force 2025 is the set of documents containing the infamous "Weather as a Force Multiplier: Owning the Weather in 2025" paper. The authors describe Nikola Tesla's death ray as a probable future Air Force capability. The report reads:

"Once again a small but capably armed country is threatening to seize its smaller but resource-rich neighbor. The Global News Network reports that the border has been violated. The same old story? No, the plot twists as a sophisticated satellite surveillance and reconnaissance system tracks the belligerent nation's leader. As he steps to the podium to incite his troops to greater violence, a blinding light from above vaporizes him and his podium leaving even his bodyguards untouched. His smarter brother, the second in command, countermands the invasion orders and in 12 hours the borders are restored. Stability, if not peace, reigns again."

"This is not science fiction, but a mission well within the capabilities of Space Operations in 2025."

A little later in the piece, the authors expound upon the usefulness of such a weapon. Although they are writing about a laser generated from a space-based platform as opposed to the NMP's network of ground-based ionospheric heaters, the concept is the same and ground-based ionospheric heaters can do similar things. As previously noted, lasers from satellites may also be used as waveguides which can increase the accuracy of electromagnetic waves produced from the more powerful, terrestrial ionospheric heaters. They explain:

"At slightly higher powers, the enhanced heating produced by the laser can be used to upset sensitive electronics (temporarily or permanently), damage sensor and antenna arrays, ignite some containerized flammable and explosive materials, and sever exposed power and communications lines. The full power beam can melt or vaporize virtually any target, given enough exposure time. With precise targeting information (accuracy of inches) and beam pointing and tracking stability of 10 to 100 nanoradians, a full-power beam can successfully attack ground or airborne targets by melting or cracking cockpit canopies, burning through control cables, exploding fuel tanks, melting or burning sensor assemblies and antenna arrays, exploding or melting munitions pods, destroying ground communications and power grids, and

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melting or burning a large variety of strategic targets (e.g., dams, industrial and defense facilities, and munitions factories)—all in a fraction of a second."

"Space Operations: Through the Looking Glass" also speaks to ground-based antennas capable of producing electromagnetic pulses that can disable electronic devices and jam communications known as 'high-power microwave' weaponry. The ionospheric heaters of today's New Manhattan Project can be used in this capacity.

Alternately, the authors of "Space Operations: Through the Looking Glass" specifically mention the Iridium satellite constellation as one that would be suitable for producing high-power microwaves. The Iridium satellite constellation was noted in chapter 6 as particularly suitable for the New Manhattan Project's remote sensing needs.

Electromagnetic energy, like that which is employed in the New Manhattan Project, has also been weaponized into systems like Raytheon's 'heat ray' also known as their 'Active Denial System.' This technology produces in subjects a burning sensation. If left exposed to the directed energy, subjects may have their skin burned at distances of 700 yards. There is a Wikipedia listing.

Judy Wood, PhD in her book "Where Did the Towers Go?," documents 1400 burned cars up to one half mile away from ground zero. Nothing else near them was damaged. Trees still had leaves on them. There were reams of unburned sheets of paper. Though they were covered with ash, no humans were burned. The exceptional thing about the cars, she notes, was the fact that they were not grounded while everything else was. Was some sort of electromagnetic weapon used on 9/11? If so, how did cave dwellers from Afghanistan get one of those?

Maybe the original purpose of Raytheon is to come up with just such a weapon. Raytheon means 'light from the gods.' Raytheon has been all about these types of technologies all along. As noted earlier, Raytheon acquired E-Systems; the company that built HAARP.

Genetic Modification

Somebody has apparently been planning ahead. If, from the megatons of aluminum and other toxins released into our biosphere, our environment becomes wrecked beyond being able to sustain life as we know it, don't worry! People have been genetically modifying plants to be able to thrive in an aluminum-ravaged biosphere! If you will recall, aluminum is the number one chemtrail ingredient.

A 2008 paper by geoengineer Alan Robock and two co-authors, published in the *Journal of Geophysical Research*, notes that, "...genetic modification of ecosystem productivity" has been suggested. They don't note who suggested it, but the rest of this section validates their assertion.

A certain genetically modified sorghum seed has been developed to thrive in aluminum contaminated soils. The makers of this sorghum seed reassure us that this type of genetic manipulation may also work well with many other food crops such as: wheat, barley, rice, maize, cotton, peanut, sunflower, tobacco, rye, alfalfa, tomato, cucumber, soya, sweet potato, grapes, rapeseed, sugar beet, tea, strawberry, rose, chrysanthemum, poplar, eggplant, sweet pepper, walnut, pistachio, mango, banana, and potato. It appears that sorghum is just the proverbial camel's nose under the tent.

The abstract of U.S. patent #7,582,809 "Sorghum Aluminum Tolerance Gene, SBMATE"

"The major aluminum tolerance gene, the SbMATE gene, encodes a root citrate efflux transporter that is Al-inducible at the level of gene transcription and is also Al-activated at the level of protein function. High level of expression of the SbMATE gene and the protein was found in roots. SbMATE orthologs with high degree of sequence homology were found in other higher plants, including rice. Successful transformation of Arabidopsis provides strong evidence that SbMATE can work across species to enhance tolerance to Al in other important crops grown in localities worldwide where Al³⁺ cations are present in acid soils and are toxic to plants."

It is curious that this patent is assigned to (along with Brazilian officialdom) the United States of America as represented by the Secretary of Agriculture. One might think that this would be right up Monsanto's alley. There may be some sort of deception going on here.

We do know that historically the Department of Agriculture has acted like it works for Monsanto. As described in Marie-Monique Robin's 2010 masterpiece "The World According to Monsanto," the collusion between our Department of Agriculture and Monsanto has been pervasive. Maybe some sort of back room deal has been struck between Monsanto and corrupt elements of our federal government enabling Monsanto to profit from the rollout of these aluminum resistant seeds; a rollout designed to appear as a benevolent government action.

If you noticed, one of the plants mentioned in patent #7,582,809 is poplar; a non-food producing tree. If food crops don't grow in an aluminum-ravaged environment, one can expect that trees won't either. This is why we can thank our lucky stars that there is a corporation called ArborGen producing and selling genetically modified trees.

<http://www.arborgen.com/>

They aren't saying that their trees are specifically resistant to aluminum contaminated soils yet, but it's good to know that they might help us in our future hour of need.

Lastly, you can bet that the geoengineers will be here to help too. Our friends have developed wholly mechanical trees that can do what natural trees have traditionally done; remove CO₂ from the atmosphere. It's a branch (pun intended) of geoengineering. For confirmation, search 'carbon capture trees.' Who needs Mother Nature? We can have giant multinational corporations that will take care of everything!

Other sprays

We are all but guinea pigs in their satanic Human experimentations. While today's super-secret New Manhattan Project saturates our atmosphere with aluminum, barium, and strontium, the conventional weather modifiers have also admittedly been spraying us with a myriad of substances (other than silver iodide) ranging from urea (urine) to carbon black to lead iodide and much more. As noted in chapter 1, the books "Clouds of Secrecy" by Leonard A. Cole and "In the Name of Science" by Andrew Goliszek document hundreds of open air tests of all types of chemicals and biologicals on unsuspecting American citizens. In fact, our military's position is that they get to spray us with whatever they want, whenever they want as long as they classify

their activities as 'research.' Knowing this, it is understandable that, for many decades now, we have been getting hit with everything under the sun.

Title 50, chapter 32, subsections 1520a & b of United States Code (law) state:

"(a) Prohibited activities

The Secretary of Defense may not conduct (directly or by contact) -

(1) any test or experiment involving the use of a chemical agent or biological agent on a civilian population; or

(2) any other testing of a chemical agent or biological agent on human subjects.

(b) Exceptions

Subject to subsections (c), (d), and (e) of this section, the prohibition in subsection (a) of this section does not apply to a test or experiment carried out for any of the following purposes:

(1) Any peaceful purpose that is related to a medical, therapeutic, pharmaceutical, agricultural, industrial, or research activity."

That's right. As long as they classify their mass murder as a, "...peaceful purpose that is related to a medical, therapeutic, pharmaceutical, agricultural, industrial, or research activity," they get to legally spray us with whatever they want whenever they want. As we can see now, this is exactly what they have done.

It is interesting to note that this law was passed in 1997; right around the time that the New Manhattan Project's large-scale spraying operations began. But that's probably just a coincidence. Don't think too much. It's not healthy for the establishment.

Reports of all types of strange substances apparently being sprayed from aircraft are abundant and readily available. William Thomas' groundbreaking 2004 book "Chemtrails Confirmed" provides early examples. The book reads:

"Human blood cells were found by a hospital lab technician in samples of gel-like material dropped over the tiny town of Oakville, Washington (pop. 665), covering a 20 square-mile area three times within a six-week period."

It continues:

"Officer David Lacey was on patrol with a civilian friend at 3 am when the sticky downpour began. 'We turned our windshield wipers on, and it just started smearing to the point where we could almost not see,' Lacy said. 'We both looked at each other and we said, 'Gee this isn't right. We're out in the middle of nowhere, basically, and where did this come from?'"

"Pulling into a gas station, officer Lacey pulled on a pair of latex gloves to clean his windshield. Lacey: 'The substance was very mushy, almost like if you had Jell-O in your hand.' Within hours, Lacey was in hospital unable to breathe."

"Chemtrails Confirmed" goes on to recount multiple other instances of this human blood cell goo (presumably dropped from airplanes) splattering all over people, property, and the Earth.

Thomas' book also references a 2001 *World Net Daily* article titled "Californians Confused

Over Chemtrails." In this article, as reproduced in "Chemtrails Confirmed," reporter Lance Lindsay recounts the experience of a former military radar technician named Gene Shimer. It reads:

"One morning, about two years ago, Shimer spotted a long, thin string resembling a spider web floating in the sky, he said. It was about 20 feet in length and could only be seen in the reflection of the sun. He looked up, saw trails, and then saw something that appeared to be a glob of foam falling from the sky. 'It came floating down, free-floating,' Shimer says. 'I caught it with a spatula, scooped it off the ground, and I watched it as it shrank. It was about the size of my fist when it first started. It looked like a cross between soap bubbles and cotton candy.'"

What Mr. Shimer described is not unlike something that was captured on video. It is video of a mass of foam about the size of a man falling from the sky. The source of this foam is unknown. The title of the YouTube video reads: "Weird Cloud Falls to Earth and Begins to Make Shapes!! MUST SEE TO BELIEVE!"

<https://www.youtube.com/watch?v=PUSq1crWyOc>

What was captured on video looks like what might be causing one of the most widely documented 'other' sprays; chem-webs. As noted in William Thomas' book and in a myriad of online reports (the author has even been told this by a person with first-hand experience), a spider web-like substance is sometimes found covering grass, bushes, and trees. The substance is usually described as completely foreign to the particular environments; i.e., it is not spider webs. Despite what the shills claim, this stuff was probably sprayed from an airplane.

If all this isn't weird enough, our United States Air Force has written about spraying what is commonly referred to as 'smart dust.' The seminal 1996 Air Force document "Weather as a Force Multiplier: Owning the Weather 2025" mentions using smart materials for the purpose of weather modification. On page 17 it reads:

"With regard to seeding techniques, improvements in the materials and delivery methods are not only plausible but likely. Smart materials based on nanotechnology are currently being developed with gigaops computer capability at their core. They could adjust their size to optimal dimensions for a given fog seeding situation and even make adjustments throughout the process. They might also enhance their dispersal qualities by adjusting their buoyancy, by communicating with each other, and by steering themselves within the fog. They will be able to provide immediate and continuous effectiveness feedback by integrating with a larger sensor network and can also change their temperature and polarity to improve their seeding effects. As mentioned above, UAVs [unmanned aerial vehicles] could be used to deliver and distribute these smart materials."

Anything that contains semi-conductor material is laced with dangerously toxic elements like

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cadmium and germanium. If these particles are small enough to float in the air, they will be inhaled by people and animals.

This type of technology is also known as 'microelectromechanical systems.' Although the current, known state of the art pertaining to smart dust is motes (pieces of smart dust) as small as a few millimeters in size, secret technologies bringing the size of such machines down to the micrometer scale may be available. As one can see from the above passage, they are working on it.

In fact, in this area, a PhD scientist is claiming a breakthrough. In his report titled "Global Environmental MEMS Sensors (GEMS): A Revolutionary Observing System for the 21st Century," John Manobianco, PhD writes:

"Technological advancements in MicroElectroMechanical Systems (MEMS) have inspired a revolutionary observing system known as Global Environmental MEMS Sensors (GEMS). The GEMS concept features an integrated system of MEMS-based airborne probes that will be designed to remain suspended in the atmosphere for hours to days taking in situ measurements over all regions of the Earth with unprecedented spatial and temporal resolution. The GEMS concept is revolutionary because it foresees the future integration of evolving technologies to realize an observing system with scalability and applicability over a broad range of weather and climate phenomena. GEMS have the potential to expand our understanding of the Earth and improve weather forecast accuracy and efficiency well beyond current capability. Resulting improvements in forecast accuracy will translate directly into cost benefits for weather-sensitive industries worldwide, and mitigate the risk factors associated with life-threatening weather phenomena."

Our cavalcade of mad science continues with the school of 'air pharmacology.' The National Center for Biotechnology Information provides us with a study titled "Feasibility of Aerosol Vaccination in Humans."

<http://www.ncbi.nlm.nih.gov/m/pubmed/12656420/>

The abstract of this monstrosity states:

"The feasibility of using aerosol vaccines to achieve mass and rapid immunization, especially in developing countries and disaster areas, is being assessed on the basis of current available information."

It continues:

"Several thousand human subjects have been aerosol-vaccinated over a period of many years in Russia with live-attenuated strains against many diseases. Extensive field trials in South America with aerosolized live-attenuated measles vaccine have also been successful, and excellent results have been reported with pilot projects employing inactivated or live-attenuated

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aerosol influenza A vaccine. We conclude that aerosol immunization seems a promising method of vaccination. Although some basic information is still lacking, this method has already been used successfully in large populations and has therefore passed the phase of initial feasibility evaluation.
sprayed to death.com
don't be their fool.com

It looks like this type of practice is being fast-tracked. Thank God they are keeping us safe!

Lastly, other engineered particles called 'niobate ring resonators' could conceivably be sprayed from aircraft for surveillance purposes. Lithium niobate is highly toxic to Humans and can cause tremors, nervous-system collapse, and death.

Morgellons

Reports of fibers growing out of people's skin along with sores and subdermal crawling sensations have been pouring in. According to the Mayo Clinic, these symptoms generally occur along with severe fatigue, difficulty concentrating and short-term memory loss. The Mayo Clinic also notes that this, "...is a relatively rare condition that most frequently affects middle-aged white women." Although the Centers for Disease Control (CDC) officially categorizes it as an 'Unexplained Dermopathy,' amongst us common folk, this disease is being called Morgellons.

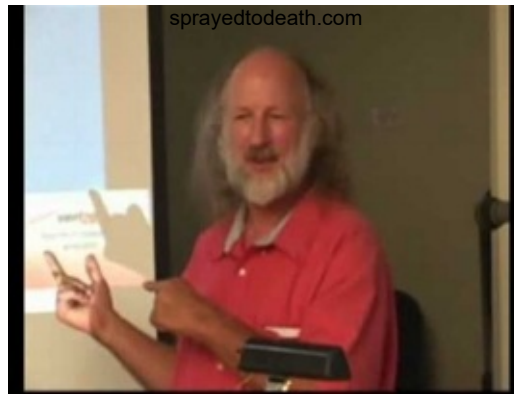
Many people are claiming that Morgellons disease is caused by chemtrails. Whether or not Morgellons is caused by the usual chemtrails consisting of aluminum, barium, and strontium, or is caused by other sprays is unclear. But people have been drawing connections between heavy chemtrail spraying and Morgellons. There is an overwhelming amount of information available online.

A man named Clifford Carnicom has been at the forefront of investigating Morgellons. He suggests that a substance at least similar if not identical to the aforementioned goo consisting of Human blood cells may be causing Morgellons. He suggests that Morgellons is not a skin condition, but rather a systemic condition not limited to our bodies. He suggests that every living thing on this planet is currently being affected by whatever is causing Morgellons.

The possibilities here are absolutely terrifying, mind-boggling, and currently beyond the scope of this investigation. Regrettably, this area of research promises to be greatly expanded in years to come. This may have been what George Bush Sr. was talking about when he said, "If the American people knew what we have done, they would string us up from the lamp posts."

Along with his other continuing research, Mr. Carnicom is conducting a study by providing a web-based form for actively infected individuals to fill out. Here is a link to his website:

<http://carnicominstitute.org>



Clifford Carnicom

Image source: YouTube

Holography

New Manhattan Project operations create a situation conducive to the production of holograms. The substances sprayed into our atmosphere (particularly barium) can act as a three dimensional reflective screen onto which beams of electromagnetic energy can be projected. This is how holograms are often made.

As weapons of deception, the aforementioned document "Space Operations: Through the Looking Glass (Global Area Strike System)" has a small section devoted to holography. The authors write:

"It is certainly possible to make holograms of troop concentrations, military platforms, or other useful objects, although the larger the scene the more difficult it is to produce the proper conditions to create a convincing hologram. No credible approach has been suggested for projecting holograms over long distances under real-world conditions, although the Massachusetts Institute of Technology's Media Lab believes holographic color projection may be possible within 10 years. Holographic and other, less high-technology forms of illusion may become [sic] a potent tool in the hands of the information warriors..."

Not long before his death, Canadian journalist Serge Monast made public something he said he had uncovered called Project Blue Beam. He said it was an establishment plan to destroy all national sovereignty and religions; replacing them with a dictatorial one world government and a satanic one world religion. This was largely to be accomplished, he claimed, by the use of incredibly realistic holographic imagery, projected in the sky and on the Earth, depicting an alien invasion. This fake alien invasion was to be used as a catalyst for all the people of the world to give up their countries and religions in favor of only one religion and only one government in order to unite against the perceived alien threat.

The chemtrails sprayed as part of today's New Manhattan Project have the potential to serve as the screen upon which the Project Blue Beam movie is projected. The aforementioned voice to skull technology could be broadcast over the audience as well to create a show with both images and sound.

Depopulation

We know that mass murder is taking place. We also know that two of the world's most prominent geoengineering advocates are also population reduction advocates. There are also abundant calls for depopulation from many high-ranking establishment types. Considering all this in total, it is reasonable to believe that the many deaths caused by geoengineering are not simply an unfortunate side-effect, but rather part of a global depopulation agenda.

Just in America alone, the evidence shows that at least hundreds of thousands of people have been murdered by geoengineering activities. This is probably a very conservative estimate. This estimate is simply what the best available information shows. This is simply what can be proven at this time. See chapter 8.

John P. Holdren is the sitting Presidential science advisor. He is also a geoengineering advocate. He regurgitates the same talking points that the geoengineers do. Without admitting that Solar Radiation Management geoengineering (chemtrails) is currently happening, he says that it might be a good thing to do because global warming is such a big problem. He, of course, couches this assertion in all sorts of disclaimers just like the geoengineers do. But the fact remains that, under certain circumstances, he recommends it. There are many reports of Mr. Holdren's position available online.

John Holdren is also a population reduction advocate. In fact, he is possibly the most prominent population reduction advocate. Back in 1977, Holdren co-authored a book called "Ecoscience." In this book, he and his co-authors advocate for population reduction; a.k.a. mass murder. Holdren and his cohorts call for forced abortions, mass sterilizations, and a United Nations 'Planetary Regime' with the power of life and death over American citizens.



John P. Holdren

Image source: Wikimedia Commons

William Gates III, the co-founder of Microsoft, is another geoengineering advocate of the highest profile also advocating for population reduction.

Bill Gates funds geoengineering. On Stanford University's website, it says that Bill Gates funds solar radiation management geoengineering research through something called the Fund for Innovative Climate and Energy Research (FICER).

<http://dge.stanford.edu/labs/caldeiralab/FICER.html>

His geoengineering advocacy is further detailed in a 2012 Guardian article titled "Bill Gates backs climate scientists lobbying for large-scale geoengineering."

<http://www.theguardian.com/environment/2012/feb/06/bill-gates-climate-scientists-geoengineering>

Like John Holdren, Bill Gates also advocates for population reduction. He has stated this position many times in many venues such as on CNN and during a TED talk. He says vaccines and other so-called 'health care services' such as those embodied in Obamacare can help in this area. For confirmation, go to YouTube and search 'Bill Gates population reduction.'

His father was the head of Planned Parenthood; an organization that has been reducing the population quite effectively for many years now.

Now that Mr. Gates has conquered the world of business, he has apparently become a 'philanthropist.' He wants to help all right. He wants to help us into our graves.



Bill Gates

Image source: Wikimedia Commons

Bill Gates isn't the only top-level crony capitalist calling for population reduction. He's got plenty of company. Prince Philip, Duke of Edinburgh, leader of the World Wildlife Fund said, "If I were reincarnated I would wish to be returned to earth as a killer virus to lower human population levels."

Ted Turner, the founder of CNN said, "A total population of 250-300 million people, a 95% decline from present levels, would be ideal." There are many other examples.

Depopulation is a theme common among the socio-economic elite and their brainwashed sycophants. What most of these people fail to understand is that the problem is not overpopulation. The problem is the establishment's extremely poor management. It is a known fact that better education results in fewer births and smaller family sizes while the establishment promotes dumbed-down garbage like Common Core. Clean, free energy technologies have been brutally suppressed for over 100 years in favor of their pollution-spewing multinational oil and gas conglomerates while they tell us we have to give up our quality of life because of pollution and the supposedly resultant global warming. Many other examples of the establishment's extreme mismanagement abound. Another book could be written.

The Georgia Guidestones is a massive monument located in Elbert County, Georgia. Consisting of 5 granite slabs (plus a capstone) over 19 feet high and weighing over 21 tons each, the same message to Humanity is carved in 8 different languages. Along with some other rubbish, the stones read, "MAINTAIN HUMANITY UNDER 500,000,000 IN PERPETUAL BALANCE WITH NATURE." The current population of the Earth is over 7,000,000,000. Maybe if the makers of the Georgia Guidestones do a really good job with vaccines and other 'health care services' like Bill Gates suggests, they can kill 6.5 billion people.



The Georgia Guidestones
Image source: DailyGrail.com

In closing

As shown in the above information, geoengineering is apparently not the only way the establishment is going about mass murdering us. But it sure is an effective one. In fact, short of thermonuclear war, the most effective way to mass murder a population is to spray megatons of toxic garbage all over them and their land. This is what the geoengineers are doing, and probably a lot more.

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Chapter 10

THE INFORMATION WAR

Because the people responsible for today's New Manhattan Project are mass murdering and wrecking the environment, they feel a need to cover it up. They go about trying to firstly make the public believe that this is not happening and secondly, if it was, that it would be justified. Over the years, in order to maintain their façades, they have produced and maintained an incredibly huge and well oiled disinformation apparatus. The group most probably responsible for this apparatus is the Central Intelligence Agency (CIA).

This chapter examines the historical and ongoing psychological warfare campaign lodged against the American people designed to simultaneously occlude and legitimize the New Manhattan Project. This chapter examines the New Manhattan Project's information war.

A history of deception

The New Manhattan Project is built upon a foundation of lies; chief among them is the theory of man-made global warming and climate change. Large-scale fear mongering about an out-of-control climate goes back to 1965 and has served as the rationalization for this global weather control project. The origins of the theory of anthropogenic (man-made) global warming are the origins of this coordinated disinformation campaign.

The first top-level government document to clearly assert the modern theory of man-made climate change was the aforementioned (ch 1) "Restoring the Quality of Our Environment." This Orwellian 1965 report, written by the Environmental Pollution Panel of the President's Science Advisory Committee, explains how CO₂ emitted by man is causing climate change and therefore we may need to inject small particles into the atmosphere in order to cool the planet. Injecting small particles into the atmosphere to manipulate the planet's temperature is today's Solar Radiation Management (SRM) geoengineering thesis. This is the thesis that calls for spraying toxic chemicals from airplanes.

Also as mentioned earlier, there was, actually, an earlier document which also stated both the theory of man-made global warming and the SRM geoengineering theses. This was a 1958 *Popular Science* article written by Howard Orville titled "Weather as a Weapon." We will consider the 1965 White House document here because it carries much more weight. In fact, when a Presidential report is issued, all pertinent government departments are obligated to review it. Articles in issues of *Popular Science* tend to end up in the garbage.

To this day, the theory of man-made climate change continues to be used as the rationalization for SRM geoengineering programs. It is being used as the rationalization for spraying stuff out of airplanes. Once this simple deception was established, the information war began.

Two years later, in the pages of the 1967 National Science Foundation's ninth annual weather modification report, we find an early example. It reads:

"ESSA [Environmental Science Services Administration] is also investigating the effect of cirrus clouds on the radiation budget of the atmosphere by studying aircraft-produced contrails which often spread into cirrus layers covering considerable fractions of the sky. One technique proposed for modifying lower cloud development has been the generation of a high level cirrus deck with jet aircraft. By intercepting solar radiation at high altitude it may be possible to influence larger scale cloud development elsewhere by reducing solar input and reducing convective cloud generation in areas where they are not needed."

Note how the authors of this report misrepresent chemtrails as contrails. Before 1967, the National Science Foundation (NSF) was not saying this. This is a psychological warfare tactic. They are trying to make us believe that an apple is an orange. If a lie is repeated often enough and with enough conviction, people will believe it. This is what the authors of this passage are counting on. As we will see, this lie has been repeated ad nauseam. ESSA is the predecessor to today's National Oceanic and Atmospheric Administration (NOAA).

A little later in that same NSF report, it reads that their computer atmospheric simulations, or 'models' as they call them, might simulate, "...producing high-level cirrus cloud cover over an area by means of jet aircraft, inserting particulate matter into the upper atmosphere to alter the solar radiation balance and the like."

A 1970 paper, again originating from the Environmental Science Services Administration (ESSA), provided another early example. The author, P.M. Kuhn writes:

"The spreading out of jet contrails into extensive cirrus sheets is a familiar sight. In the most common case, when persistent conditions exist from twenty-five to forty thousand feet, a few long contrails increase in number and gradually merge into an almost solid white sheet."

Kuhn continues:

"From a descriptive point of view contrail development and spreading commonly begins in the morning hours as heavy jet traffic commences and finally extends from horizon to horizon as the air traffic peaks."

Conveniently for Mr. Kuhn, this paper was not peer reviewed or refereed.

Even though our military's use of weather modification to flood out the enemy's main supply route in Vietnam was revealed in the Pentagon Papers and has since been declassified, the Secretary of Defense swore that he knew otherwise. In other words, he lied. Let us reference a brief passage from the 1978 Congressional Research Service report:

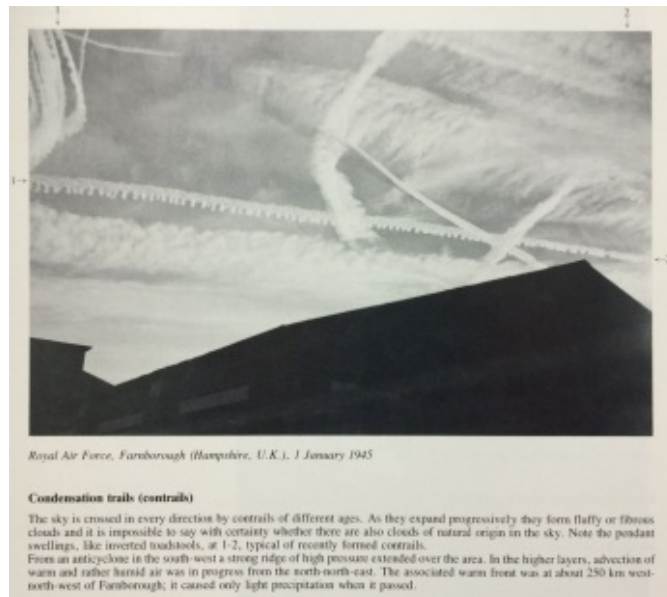
"During an April 1972 appearance before the Senate Foreign Relations Committee, Secretary of Defense Laird was questioned by both Senator Pell and Senator Fulbright about rainmaking in Vietnam. The Secretary said: 'We have never engaged in that type of activity over North Vietnam.'"

In 1977 the Weather Modification Advisory Board expounded upon a familiar line of bull.

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Their authors wrote, "Introducing contrails in selective regions of the atmosphere can produce cirrus clouds, to keep heat in or out of an area." As mentioned in chapter 1, 1977 was also the year that the term 'geoengineering' was introduced in the premiere edition of the journal *Climatic Change*. The late 1970s was when today's SRM geoengineering thesis began taking a firm foothold.

In 1987, the World Meteorological Organization and the British Royal Air Force cast an abomination out upon the Earth. The caption reads:

"The sky is crossed in every direction by contrails of different ages. As they expand progressively they form fluffy or fibrous clouds and it is impossible to say with certainty whether there are also clouds of natural origin in the sky. Note the pendant swellings, like inverted toadstools, at 1-2, typical of recently formed contrails."



Chemtrails presented as contrails by the WMO and the Royal Air Force
Image source: the World Meteorological Organization & the British Royal Air Force

A 1999 report by the United Nations' World Meteorological Organization and Intergovernmental Panel on Climate Change titled "Aviation and the Global Atmosphere" bolstered lies about contrails by stating that they can form cirrus clouds.

In 2000, the Environmental Protection Agency (EPA) along with the National Aeronautics and Space Administration (NASA), NOAA, and the Federal Aviation Administration (FAA) compromised themselves by releasing a report titled "EPA Aircraft Contrails Factsheet." In this report, they tell lies about how contrails, "...last for hours while growing to several kilometers in width and 200 to 400 meters in height." This report included an image depicting chemtrails which were, of course, described as consisting only of harmless water vapor.



Chemtrails presented as contrails in the EPA factsheet
Image source: the Environmental Protection Agency

A 2001 paper appearing in the *Journal of Geophysical Research* says that 'contrail clusters' cause radiative forcing (the SRM geoengineering thesis) and, "...mature into diffuse cloudiness." The authors write:

"Clusters of spreading, persistent contrails sometimes form in heavy air-traffic regions when the warm exhaust emissions from subsonic jet aircraft mix with cold and relatively moist ambient air in the upper troposphere. Time series of satellite imagery have shown that these clusters can develop into large regions of cirrus-like cloudiness [Minnis et al., 1998a], which may affect climate by modifying the atmospheric radiative budget. As contrails are ice clouds, they have radiative effects that are similar to thin cirrus clouds [Fu and Liou, 1993] and may have significant regional climatic impacts [Liou et al., 1990]."

The British government has released a couple of official statements telling us that chemtrails do not exist. This is from the same government that in 2009 proposed SRM geoengineering and in 2010 produced a joint report with the U.S. House of Representatives advocating geoengineering regulation (i.e. legitimizing chemtrails).

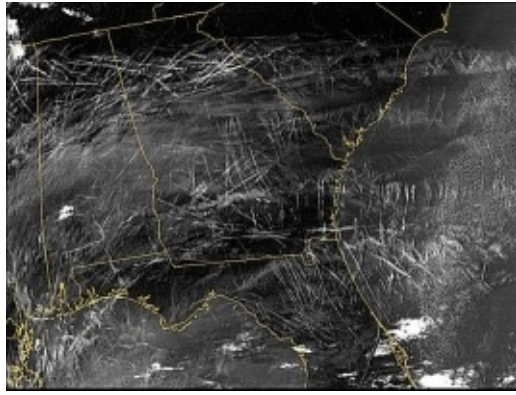
NASA has a web page dedicated to brainwashing children. At the top of the page it reads, "Contrail Watching for Kids." Alongside a picture of a chemtrail-laden sky, the text reads:

"Contrails are long clouds made by high-flying aircraft. Because kids are so good at watching clouds, they can easily be taught to identify contrails."

That is enough to make one a little nauseous, isn't it? They're coming for our kids.

http://mynasadata.larc.nasa.gov/science_projects/contrail-watching-for-kids/

Our friends at NASA were providing disinformation once again when they presented the image below with a caption that described the many chemtrails as, "...contrails, cirrus clouds created by airplanes." They must think that we are too ignorant and stupid to realize that these



"Contrail Clutter over Georgia"

Image source: NASA

Chemtrails in media

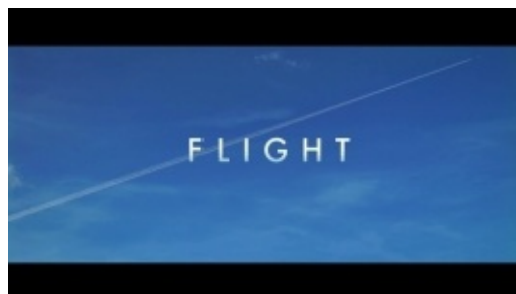
Since the 1946 media explosion celebrating the pioneering weather modification efforts of three General Electric scientists, airplanes spraying stuff have made regular mainstream media appearances. Today, the persistent lines in the sky left behind by airplanes are woven into the mainstream media's fabric. What is presented here is but a small sampling.

The 1959 Disney short educational film "Eyes in Outer Space: A Science-Factual Presentation" was made in cooperation with the Department of Defense. The famous conventional weather modifier Irving P. Krick served as a technical consultant. This movie depicts men in ~~Lawrence Livermore National Labs~~ a global weather center controlling the weather with drone aircraft. As a plane flies across the screen emitting a trail, the narrator says, "Robot planes seed the clouds from above." These 'robot planes' are then depicted saving us all from a nasty hurricane by spraying stuff into it. There is an edited version available on YouTube.

<https://www.youtube.com/watch?v=Acp2tGzs1ig>

The 2008 feature film "Toxic Skies" starring Anne Heche is a fictional drama involving chemtrails.

In the 2012 Denzel Washington movie "Flight," chemtrails were presented.



"Flight" the movie

Image source: Paramount Pictures

A 2012 report by the Institute of Atmospheric Sciences at the South Dakota School of Mines and Technology commemorating their 50th anniversary presented an image of an iridescent cloud with a chemtrail in the background. As noted in chapter 1, iridescent clouds are indicative of the presence of chemtrail spray.

The Topps Company, famous for its baseball cards, produced a 2013 series of cards called *Curious Cases*. One of the cards in the set was about chemtrails. Here is the front of the card:



"Chemtrails" from the Topps series *Curious Cases*

Image source: The Topps Company, Inc.

The back of the chemtrails card reads:

"CHEMTRAILS - THOSE BILLOWING WATER VAPOR STREAMS BEHIND AN AIRPLANE - ARE ACTUALLY BIOLOGICAL AGENTS BEING DISPERSED BY VARIOUS GOVERNMENTS FOR UNDISCLOSED REASONS (POSSIBLY MIND OR POPULATION CONTROL). AT LEAST THAT'S THE ALLEGATION BY CONSPIRACY THEORISTS."

A Sept. 24, 2013 Guardian article about geoengineering featured a photo of one of the observable effects of today's chemtrail spraying operations; a sun dog. They may as well have presented a photograph of chemtrails criss-crossing the sky.



A *Guardian* geoengineering article

Image source: *The Guardian*

The February 22, 2016 episode of the *X-Files* titled "My Struggle II" featured a storyline involving an outbreak of a mass pandemic caused by chemtrails combined with microwave electromagnetic energy.

Chemtrails are consistently appearing in all types of advertisements. GeoengineeringWatch.org presented a good article about it titled "Chemtrails in Advertisement and Media Everywhere - Why?"

<http://www.geoengineeringwatch.org/chemtrails-in-advertisement-and-media-everywhere-why/>

Chemtrails have been drawn into video games. Here are a couple of examples; one from a Lego video game and another from Grand Theft Auto:



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Lego video game chemtrails
Image source: The Lego Group

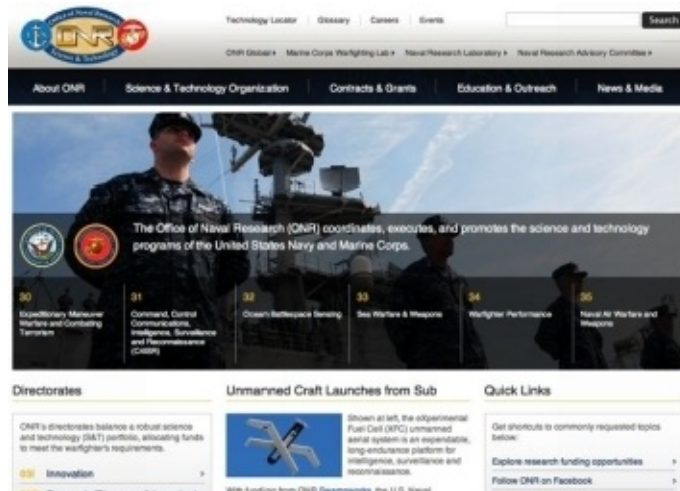
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dontbetheirfool.com



Grand Theft Auto chemtrails
Image source: Rockstar Games

Our armed services are also getting in on the act. On the next page is a screenshot of a webpage from the Office of Naval Research depicting chemtrails:



Office of Naval Research chemtrails
Image source: the Office of Naval Research

It figures. Because Navy research has been instrumental in the development of technologies used in today's New Manhattan Project and is probably to this day involved.

Controlling the narrative

In the first section of this chapter, we saw many lies coming, in a one way conversation, from the establishment. The advent of the Internet has created a new dynamic, though. Now the average citizen gets to talk back. For when this talkback disagrees with the establishment position, new ways of squelching dissent have been developed.

President Obama's former administrator of the White House Office of Information and Regulatory Affairs, Cass R. Sunstein co-wrote a 2008 paper titled "Conspiracy Theories." Referring to theories about the 9/11 attacks, global warming, the Apollo moon missions, and many others, Sunstein and his co-author wrote that conspiracy theories can be very dangerous

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and must be dealt with. In stead of outright censorship, the co-authors opted for cognitive infiltration; a.k.a. psychological warfare. The authors write:

"Government agents (and their allies) might enter chat rooms, online social networks, or even real-space groups and attempt to undermine percolating conspiracy theories by raising doubts about their factual premises, causal logic or implications for political action."

Let us not forget that our federal government's official position is that chemtrails do not exist and that the New Manhattan Project is a conspiracy theory.



Cass Sunstein

Image source: Wikimedia Commons

A series of 2014 articles by Glenn Greenwald and others revealed documents, procured by Edward Snowden, showing how the British Government Communications Headquarters (GCHQ) has been running Internet psychological warfare operations against American citizens. The outward manifestation of these operations are the myriad of disinformation artists which almost always (sometimes immediately) pop up when anyone dares question the persistent trails in the sky or anything else the establishment doesn't want you to know about.

'Sock puppets' (also known as 'shills' and 'trolls') are the dastardly and diabolical creatures that almost invariably crawl out of the Internet's woodwork when one asserts that chemtrails are real. They have many different modes of operation and infest comments sections, forums, and disinformation websites. Many or most are probably computers; i.e. artificial intelligence.

Although trolls employ many tactics, the most prevalent involve attempts to discredit sources and information. Incessant attacks upon an individual's or organization's character and credibility are used when the quality of the information coming from either cannot be impugned. The thinking goes that if one can discredit the source, than any other information produced by that source is also invalid; even if the other information produced by that source is unassailable. Trolls also build 'straw men' in attempts to discredit information. A straw man is built by picking out a small aspect of a larger body of information and attempting to discredit that particular little bit. The thinking goes that if one small part of a larger body of information can be discredited, than all of the larger body is also discredited.

Many trolls are not Human at all. Way back in the early 1970s, people were communicating with computers. Not only that, but computer scientists at Stanford and UCLA were conducting

wholly computerized correspondence between two computers over the ARPANET (the precursor to today's Internet). Today, this technology is commonplace. People ask their phones questions all the time. To have 'bots' automatically responding is probably simple and cost-effective; therefore desirable and prevalent. The robotic manner in which computerized sock puppets respond often reveals their hand.

In February of this year (2016), InfoWars published an article titled "Backing Infowars May Soon Be Considered 'Material Support' of Terrorism." In this article, Kurt Nimmo outlines the U.S. government's latest moves to crack down on those who dare to criticize our federal gods.

<http://www.infowars.com/backing-infowars-may-soon-be-considered-material-support-of-terrorism/>

This is quite chilling when considering that your author has been compared to the 'domestic terrorists' hereby singled-out. In a March 14, 2015 article, the Christian Science Monitor (of all outlets) published a piece titled "EPA Debunks 'Chemtrails,' Further Fueling Conspiracy Theories."

<http://www.csmonitor.com/USA/2015/0314/EPA-debunks-chemtrails-further-fueling-conspiracy-theories-video>

In this article, even though I have no criminal record, your author is compared to a married couple named Jerad and Amanda Miller who shot and killed three people including two police officers at a Las Vegas Wal-Mart before being killed themselves. This is a classic attempt to discredit the source and possibly set him up. That's not very Christian of them now, is it?

The CIA

It is probably the Central Intelligence Agency (CIA) running the New Manhattan Project's cover. They have been there since the beginning. The CIA's involvement in the world's media is well documented. They have been domestically targeting American citizens. They have a history of climate change research and related fear mongering. Not only all that, but the CIA has owned, operated, and provided cover for large, clandestine aircraft operations involving weather modification.

In chapter four, the author documented some of the CIA's proprietary airlines; chief among them Air America. As recounted in the chapter, Chris Robbins' book "Air America" documents a CIA proprietary airline, Civil Air Transport, conducting weather modification operations. "Air America" also describes how the CIA provided cover for their proprietary airlines by producing untraceable aircraft. These skills would come in handy when providing cover for the hundreds of aircraft necessarily involved in today's New Manhattan Project.

At least one of the co-authors of the aforementioned 1965 White House document establishing both the theory of man-made global warming and today's Solar Radiation Management (SRM) geoengineering theses had connections to the CIA. That co-author was none other than our good friend Gordon J.F. 'How to Wreck the Environment' MacDonald. His National Academy of Sciences obituary reads:

downloaded from *"Gordon chaired the MEDEA Committee (initially the Environmental Task Force) of the Central Intelligence Agency, a brainchild of Senator (later Vice-President) Gore for the application of 'overhead assets,' that is, information collected by intelligence satellites, to the solution of environmental problems. Here the intelligence and academic communities, two disparate communities meeting initially under conditions of mutual mistrust, developed over the years a feeling of trust and respect. Gordon was at his best, combining his unique environmental background with patience and perseverance. In 1994 the CIA presented Gordon with the Seal Medallion, the highest civilian honor of the agency."* sprayed to death.com don't hate their fool.com

As if we could forget, Al Gore has been the most prominent proponent of the theory of man-made global warming and how we need to sacrifice our quality of life because of it.

This information suggests that MacDonald was instrumental in the development of the New Manhattan Project's satellite remote sensing needs. As noted earlier, beginning in 1986, along with a man named Aristides Patrinos, he helped develop a comprehensive suite of atmospheric monitoring equipment for the Department of Energy called the Atmospheric Radiation Measurement program (ch 6). Lastly, MacDonald served as the aforementioned Jason group's liaison for the CIA.

The CIA's MEDEA (Measurements of Earth Data for Environmental Analysis) Committee, of which Mr. MacDonald was a member, existed from 1992-2001. According to a Jan. 4, 2010 *New York Times* article, the MEDEA Committee was resurrected as a CIA backed, National Academy of Sciences run environmental remote sensing program. Five years later, the *Washington Times* and *Mother Jones* reported that this program had, once again, been shut down.

The CIA has been commanding the mainstream media for a long time. Operation Mockingbird is a CIA program that began in the late 1940s as a way to influence foreign populations. It has since been turned upon the domestic American population. The operation was initially overseen by Allen Dulles and we have no reason to believe that it does not continue to this day.

Former *Village Voice* reporter Deborah Davis quoted a CIA analyst when she reported that, in the early 1950s, the CIA, through Operation Mockingbird 'owned' 400-600 journalists at *The New York Times*, *Newsweek*, CBS, and other organizations. Of course, the foreign operations thundered along as well.

The CIA exerts extraordinary influence over the press. In his meticulously researched book "Virtual Government: CIA Mind Control Operations in America," Alex Constantine writes:

"The cost of disinforming the world cost American taxpayers an estimated \$265 million a year by 1978, a budget larger than the combined expenditures of Reuters, UPI and the AP news syndicates. In 1977, the New York Times ran a front-page story detailing a worldwide propaganda effort, with direct CIA ownership of some 50 newspapers in the U.S. and elsewhere."

In this next passage from "Virtual Government," we see similar disinformation tactics as those outlined in the previous section. Mr. Constantine writes:

downloaded from *"One CIA dispatch, dated April 1, 1967, declassified nine years later under FOIA [Freedom of Information Act], advised planted 'assets' in the media on 'Countering Criticism of the Warren Report.' Features and book reviews 'are particularly appropriate for this purpose,' the CIA dispatch observed. Strategies to 'answer and refute' critics of the government's investigation of the JFK murder included accusations that they were 'financially interested,' 'hasty and inaccurate in their research,' 'infatuated with their own theories,' and 'wedded to theories adopted before the evidence was in.' The CIA's mouthpieces in the press were directed to emphasize: 'No significant new evidence has emerged,' 'there is no agreement among the critics,' or the ever-popular, 'Conspiracy on the large scale often suggested would be impossible to conceal.'"* sprayed to death.com dontbotherfoal.com

As they attempt to throw us off the scent of today's New Manhattan Project, chemtrail shills follow these same directives.

Pulitzer Prize winner Carl Bernstein wrote a 1977 article titled "The CIA and the Media" supporting Constantine's findings. Bernstein's complete article is available on his website CarlBernstein.com.

http://www.carlbernstein.com/magazine_cia_and_media.php

David Rockefeller was apparently talking about the CIA's media operations when, at a 1991 Bilderberg meeting, he said:

"We are grateful to the Washington Post, the New York Times, Time Magazine and other great publications whose directors have attended our meetings and respected their promises of discretion for almost 40 years.....It would have been impossible for us to develop our plan for the world if we had been subjected to the lights of publicity during those years. But, the world is more sophisticated and prepared to march towards a world government. The supranational sovereignty of an intellectual elite and world bankers is surely preferable to the national auto-determination practiced in past centuries."

Evidence exists that the CIA's activities in this area continue to this day. Respected German journalist Udo Ulfkotte PhD was interviewed in 2014 saying that he got tired of publishing articles under his name, written by CIA agents. He wrote a book about it titled "Gekaufte Journalisten" (Bought Journalists). An English version of his book with the title of "Journalists for Hire: How the CIA Buys the News" should be available soon. The original June 1, 2016 release date has been pushed back to July 30 and then pushed back again to October 30. One can pre-order a copy on Amazon.com.

http://www.amazon.com/Journalists-Hire-How-Buys-News/dp/1944505458/ref=sr_1_1?s=books&ie=UTF8&qid=1457214851&sr=1-1&keywords=Udo+Ulfkotte

Not only have they been running the media, but the CIA has been promoting paranoia about the Earth's average temperature for a long time. The 1974, CIA produced report titled "A Study of Climatological Research as it Pertains to Intelligence Problems" fear mongers incessantly

about climate fluctuations and weather. They report on recent examples of extreme weather and the resultant death and destruction as evidence for a long-term shift in Earth's climate which they call 'the climate change.' Maybe they should have made a horror movie by that title.

The authors of "A Study of Climatological Research" go on to state that the combination of 'the climate change' and Earth's growing Human population is a recipe for disaster. They write that the crop failures due to 'the climate change' are destabilizing governments all over the world. They write that destabilization of governments can cause war. The authors write:

"Timely forecasting of climate and its impact on any nation is vital to the planning and execution of U.S. policy on social, economic, and political issues. The new climatic era brings a promise of famine and starvation to many areas of the world. The resultant unrest caused by the mass movement of peoples across borders as well as the attendant intelligence questions cannot be met with existing analytical tools. In addition, the Agency will be faced with tracing and anticipating climate modification undertaken by a country to relieve its own situation at the detriment of the United States. The implication of such a modification must be carefully assessed."

You guessed it. They need more funding.

This report appears to be the fount of the wildly reaching assumptions pervasive among global warming alarmists today claiming: famine, disease, mass-migrations, war and Humanity's extinction all due to climate change.

A small problem for today's global warming cult members, though, is the fact that this early example of climate change delusion concerned itself with *global cooling*, not global warming. If one tries hard enough, anything can be made to appear as a problem; especially when lots of money and power hang in the balance.

In 2008, the CIA contributed to a standard global warming scare-fest titled "National Intelligence Assessment on the National Security Implications of Global Climate Change to 2030." At least this time the authors of the report didn't foresee state failure. We have something to be thankful for.

In 2015, CNS News and Mother Jones reported that CIA director John Brennan was regurgitating nonsense about all the impending doom sure to come from Earth's temperature fluctuations and how he is so concerned. He really cares so much. He probably got to the top of the CIA by being such a caring individual.

Lastly, the CIA, funded a study resulting in the 2015 National Academy of Sciences report titled "Climate Intervention: Reflecting Sunlight to Cool Earth." This study was also supported by some of the usual suspects: the National Oceanic and Atmospheric Administration, the National Aeronautics and Space Administration, and the Department of Energy.

In "Climate Intervention" the authors cite the discredited Intergovernmental Panel on Climate Change (IPCC) data to assert that global waring is occurring. Then they write that the topic of SRM geoengineering needs more research and, without admitting that anything like it is currently taking place, they present SRM geoengineering as a potential solution. If one has read scores of these types of documents, one recognizes this standard line of bull immediately.

To cement their position, on June 29 of 2016, the director of the CIA, John O. Brennan made a speech before the Council on Foreign Relations. He suggested that spraying the Earth with

Notable people & organizations speaking out

We are not alone. Not everyone works for the CIA. Millions of people worldwide are fully chemtrail aware and speaking out. Many other, more influential individuals have voiced concern and taken action as well. Along with some government and other organizations, at least scores of famous and notable people have been speaking out against chemtrails and geoengineering. This is undoubtedly a partial list.

Ted Gunderson (1928-2011), the former head of the Los Angeles, Dallas and Memphis FBI claims to have witnessed huge, unmarked chemtrail spraying planes on the ground at the Lincoln, Nebraska Air National Guard facilities. He also said that chemtrail spraying planes operate out of Fort Sill, Oklahoma.

In 2007, Dutch parliamentarian Erik Meijer raised the issue with the European Parliament. The European Parliament of course responded that contrails persist and that chemtrails do not exist.

There has been formal discussion of chemtrails in the New Zealand Parliament.

Former British Columbia Premiere (1986-1991) Bill Vander Zalm has repeatedly spoken out against chemtrails.

Multi-term Arizona state senator Karen Johnson has been an outspoken critic.

As mentioned in chapter 4, a former member of the United States Air Force has testified to the fact that strange materials were being brought on base presumably for the replenishment of chemtrail spraying airplanes. Kristen Meghan's job at Tinker Air Force Base, Oklahoma was to monitor all materials coming in and going out. She says that anomalous containers coming on base contained the main chemtrail ingredients: aluminum, barium, and strontium.

In 2012, former Georgia congresswoman Cynthia McKinney spoke out. She passionately cited a recurring pattern of government corruption as evidence for State involvement in today's chemtrail spraying operations. Her speech is presented in a YouTube video with the title of "Consciousness Beyond Chemtrails Conference - Cynthia McKinney."

https://www.youtube.com/watch?v=9W-n6_Xedx4

On July 3, 2013, Arizona state senator Sylvia Allen posted a note on her Facebook page indicating that she thinks for herself. She is a very dangerous woman. She wrote:

"The planes usely[sic], three or four, fly a grid across the sky and leave long white trails streaming behind them. I have watched the chem-trails move out until the entire sky is covered with flimsy, thin cloud cover. It is not the regular exhaust coming from the plane it is something they are spraying. It is there in plain sight."

<https://www.facebook.com/sylvia.t.allen/posts/622863927737785>

In October of 2013, a Canadian MP by the name of Alex Atamanenko presented to the Canadian Parliament a petition signed by over 1,000 people outlining concerns about chemtrails.

On June 25, 2014 the Arizona Department of Environmental Quality held a public hearing about geoengineering and chemtrails. The meeting was sponsored by State Senator Kelli Ward. Many local citizens testified to the dangers of ongoing geoengineering programs.

At a July 15, 2014 regular meeting of the Shasta County, CA Board of Supervisors, chemtrails were on the agenda. 300 people attended. Dozens testified. Among other speakers, we heard from a former American Airlines commercial airline pilot by the name of Jeff Nelson who testified to the fact that jet airplane exhaust does not persist. He said that contrails dissipate quickly. That means that these lines in the sky, often stretching from horizon to horizon, are not normal contrails. We also heard similar testimony from another commercial pilot named Russ Lazuka. Additionally, we learned that a Shasta County, CA supervisor by the name of Bill Schappell recognizes geoengineering as an ongoing, secret operation. The supervisors voted to look into updating their local air monitoring equipment and to send a compilation of the information discussed at the meeting to appropriate government agencies.

Former Marin County Board of Supervisors, District 1 Representative Susan Adams has voiced interest in chemtrail legislation, stating, "I will continue to monitor your efforts and if there is federal legislation or regulation being considered which the county can send a letter of support for, please let me know."

Eleventh Senatorial District California State Senator Mark Leno recognizes chemtrails. He responded to my letter about chemtrails by stating:

"Thank you for writing to share the information on chemtrails. I appreciate your taking the time to voice your concerns regarding this important issue. As we begin to learn more about chemtrails and begin to have more in depth conversations about their use, I will keep the information you have forwarded in mind."

In late 2015, a former commercial passenger airline pilot named Willem Felderhof began speaking and writing publicly about his realization that those lines in the sky are not normal contrails and that we are being sprayed.

In a December 2015 article appearing on ActivistPost.com titled "Saudi Princess Speaks Out Against Chemtrails and Geoengineering," a member of the Saudi royal family, Princess Basmah Bint Saud went public with her concerns. She described the ongoing geoengineering program as a weapon of mass destruction; a method of slow poisoning which threatens all life on Earth. She expressed concern about the biological impacts. She expressed uneasiness about what kind of world we will leave for our children.

<http://www.activistpost.com/2015/12/saudi-princess-speaks-out-against-chemtrails-and-geoengineering.html>

A North Atlantic Treaty Organization (NATO) commander by the name of Fabio Mini and a member of the Italian parliament by the name of Sandro Brandini have gone public. Mini says that, "The pictures we can find online are really dreadful because the trails intersect regularly." He continues, "I cannot say the difference between the ones caused by the condensation and the ones left up there on purpose. I cannot speak on the ones left there on purpose, or what the purpose is. I mean, why are they left there?" He notes, "I think that, often exhaustive answers

are not given because the knowledge of these phenomena is very limited." In closing he notes, "This situation increases the number of suspects. I understand the authorities approach much more not to give any explanation rather than totally deny."

Brandini says:

"What is sure is that it's not a mysterious phenomenon like some people may think. These trails are produced by the airplanes; especially the military ones. And in the course of time, they have changed their appearance. That's why I have said this phenomenon is real and it strongly concerns the citizens. Therefore the citizens need to be informed. Who has to do that? The government through the appropriate ministers; both the environment and the defense. If it was such a trivial issue, it wouldn't have been raised throughout the world. For instance, I know that in the U.S., the government made an investigation concerning this subject and there the conclusions weren't exhaustive either. Probably there's something related to military activities. That, I think, isn't shocking. The real problem is that when there are experiments and phenomena of this type, the government of the country is the first to be aware of them. In any case, the citizens should be reassured by saying they are experiments; or whatever they are. That they are not a concern for the health of the citizens."

Russia Today and Geoengineering Watch came through with the YouTube video titled "NATO General Expresses Alarm Over Atmospheric Aircraft Spraying."

<https://www.youtube.com/watch?v=IhQd5ETrk8s>

The Cypriot government is taking action. Due to many complaints, Agriculture Minister Kouyialis has ordered an official investigation. The story was covered in a Feb. 18, 2016 article titled "Minister to Probe Mysterious Chemtrails."

<http://in-cyprus.com/minister-to-probe-mysterious-chemtrails/>

Action star of movies and television Chuck Norris makes a case for the reality of chemtrails in his April, 2016 piece written for *World Net Daily* titled "Sky Criminals."

<http://mobile.wnd.com/2016/04/sky-criminals/>

In a May, 2016 piece appearing in the British publication *Sunday Express*, a former Essex County councillor by the name of John Dornan expressed awareness. He is quoted as saying, "There is a clear blue sky, then the planes come and the trails criss-cross over each other, until they spread out into long clouds. After that the sunlight dims." He continues, "Your eyes can't lie. It is happening everyday and the evidence is on this website [GeoengineeringWatch.org]."

<http://www.express.co.uk/news/weird/672592/CHEMTRAILS-Are-these-jet-planes-secretly-spraying-chemicals-to-REVERSE-climate-change>

Quite a few famous musicians have spoken out. Beck released a 2008 song titled "Chemtrails." The lyrics read like this:

*So many people
Where do they go?
You and me watching a sky full of chemtrails
Watching the jet planes go by*

In 2009, musician Prince spoke out about chemtrails on the *Tavis Smiley Show*. He said:

"When I was a kid, I used to see these trails in the sky all the time. And, so, that's cool. A jet just went over. And then you started to see a whole bunch of them and the next thing you know, everybody in your neighborhood was fightin' and arguin' and you didn't know why."

The video is available on YouTube. Here is a link:

https://www.youtube.com/watch?v=MBzx_3eOyZA

In 2010, Billy Corgan of the Smashing Pumpkins took time out from one of his live performances to point out the 'toxic death smoke' in the sky. Here is the video:

<https://www.youtube.com/watch?v=HKhVuAzyGRI>

In a 2011 song titled "What I Hate," country music legend Merle Haggard sings, "What I hate is looking up and seeing chemtrails in a clear blue sky today." The song is available on YouTube:

<https://www.youtube.com/watch?v=yT33FKsG3c8>

The rock and roll band Cake is apparently chemtrail aware. Lyrics from multiple songs indicate awareness. Their 2001 song "Comfort Eagle" goes like this:

*And the fluffy white lines
That the airplane leaves behind
Are drifting right in front
Of the waning of the moon*

Their 2004 ditty "Wheels" informs us:

*In a wooden boat in the shipping lanes
With the freighters towering over me
I can hear the jets flying overhead*

Lastly, Cake's 2011 release "Easy to Crash" states:

*Clouds hung hugely and oppressively
Over our busy little cars
Clouds hung hugely and oppressively
We didn't notice
We didn't care
We didn't notice*

A shill online once challenged your author to find any doctors or PhDs who have spoken out against chemtrails and geoengineering. At the time, I really wasn't aware of any. Since that fateful day, I have been compiling a list. To whomever that pathetic creature was: thank you for making us stronger. With plenty more on the way, here is the list:

Lenny Thyme PhD, Dr. Russell L. Blaylock, Ann Fillmore PhD, Leuren Moret PhD, Dr. Bill Deagle, Dr. Joseph Puleo, Dr. Rosalie Bertell, Dr. Stephen D. McKay, Dr. Patrick Flanagan, Dr. Leonard G. Horowitz, Dr. Eric Karlstrom, Dr. Leonard A. Cole, Dr. Betty Martini, Dr. Thomas E. Bearden, Dr. Edward Group, Dr. Ilya Sandra Perlingieri, Dr. Sherry Tenpenny, Dr. Rima E. Laibow, Dr. Lorraine Hurley, J. Marvin Herndon PhD, Dr. Steven Amato, Dr. Ted Broer, Dr. Stephen Davis, Dr. Barrie Trower, Dr. Hamid Rabiee, Cynthia McKinney PhD, Dr. Frank Livolsi, & Dr. R. Michael Castle

Let history remember the people who had enough common sense to recognize the obvious and enough guts to tell the truth. When the New Manhattan Project is dead and gone, let the people who spoke out against it prosper.

Conclusions

"Global warming is about politics and power rather than science. In science, there is an attempt to clarify; in global warming, language is misused in order to confuse and mislead the public."

-Richard S. Lindzen, former professor of meteorology at the Massachusetts Institute of Technology (1983-2013)

The theory of man-made global warming and climate change is a lie. It is so patently false that people promoting it must know better.

The science is far from settled. Real science is never settled. The notion that the science is settled is, in itself, unscientific.

The popular talking point about 95% of scientists espousing the theory of man-made global warming is pure bull. The Heidelberg Appeal of 1992 called the theory of man-made global warming into question and garnered the signatures of about 4,000 scientists, including 72 Nobel Prize winners. Secondly, 31,487 U.S. scientists (including 9,029 with PhDs) have publicly signed a statement declaring that they consider the dangerous man-made global warming

hypothesis to be inconsistent with the evidence. These are just the scientists who have gone public. There are probably many more who don't want the persecution and therefore keep their views private. We're talking here about a very significant portion of the scientific community bucking the theory of man-made global warming; possibly a majority.

<http://www.petitionproject.org/>

The best data (satellite data) shows that the Earth's average temperature is not rising. In fact, for about the last 15 years, the earth's average temperature has gone down slightly. The much ballyhooed long-range atmospheric models predicting warming are based on faulty data and are the product of a collaboration of scientists and computer modelers working for lobbyists, bureaucrats, and politicians. Al Gore and Michael Mann's 'hockey stick' chart has been scientifically and systematically proven to be a big, stinking FRAUD.

Sea levels are currently not rising significantly and don't look to do so anytime soon. Sea levels have historically been rising for the past 700 years, but lately the rate of sea level rise has slowed to almost negligible amounts. The glaciers have been melting since long before man started burning large amounts of hydrocarbon-based fuels as well. This is because we are in what is known as an 'interglacial' period. The history of Earth's climate is interspersed by interglacial periods and ice ages. It is much more probable that a new ice age is coming rather than some sort of anomalous global warming period.

Carbon dioxide gas accounts for .038 percent of the gasses in Earth's atmosphere. Of that .038 percent, only 3 percent is man-made. We're talking about an infinitesimal amount of gas. Water vapor accounts for 95% of the Earth's greenhouse gasses.

Believe it or not, it's not man-made CO₂ changing the climate. It is that incredibly massive ball of fire in the sky; the sun. Observant chaps throughout history have noticed how every day temperatures rise when the sun appears and temperatures drop when it goes away; only to rise again the next morning. The sun drives both weather and climate. THE SUN! THE SUN! IT IS THE SUN!!! Now, should we try to control the sun? They're probably looking at it.

So, if the theory of man-made global warming is a lie, why would it be repeated so often and with such conviction? What great purpose does this lie serve?

The theory of man-made global warming was invented and has been perpetuated as a cover story for the New Manhattan Project.

Let that sink in real good. You heard it here first, folks. All the lies told by all the medias and all the governments of the world pertaining to global warming are cover for the greatest scientific endeavor in Human history. The first planetary level scientific endeavor is so huge that it needs a cover story this big. Many socio-economic agendas like the United Nations' Agenda 21 and cap-and-trade (communism/centralized control) have been piggybacked upon it, but the original impetus for the lie is the New Manhattan Project.

In 1965, when traitorous and illegitimate elements of our federal government released the document titled "Restoring the Quality of Our Environment," simultaneously establishing both the theory of man-made climate change and the SRM geoengineering theses (ch 1), that was the official beginning of the big lie. This lie about global warming served and serves as the justification for spraying megatons of toxic garbage over Humanity and the Earth's biota. This lie was needed as justification for the visible aspects of the planned New Manhattan Project.

Let us not forget that the above noted document came out of the executive branch of the federal government and that the CIA is designed to serve the executive branch. In the New Manhattan Project, this chapter has shown the CIA's pervasive involvement. The CIA probably procured the theory of man-made global warming.

Consider the implications of this. Consider how almost all of the environmental movements and organizations in the Western world have been folded into this grand deception. Consider the countless millions of people who have marched in the street, in a satanic orgy, demanding the Earth's (and their own) destruction. Consider all the money that has been donated to perpetuate this treachery. Consider all the fools who have forsaken and attacked their fellow man because he did not want to be destroyed. The establishment has had all these people thinking that they are doing a good turn, all the while these people have been supporting everybody's and everything's utter destruction. In the church of global warming, there is an altar beneath the pulpit.

If you still espouse the theory of man-made global warming, and are not completely nihilistic and selfish, please relinquish your dogma. We're all being murdered and most of us really don't want to be killed. Heck, most of us don't even want a reduction in our quality of life. It's not necessary. This is what happens when we let a vampire into our house. Death is what happens when enough people believe the big global warming lie.

notes

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Chapter 11

CONCLUSIONS

A covert, global weather modification project involving aircraft, dispersed particles, electromagnetic energy, and a command and control apparatus is currently operating mostly in North Atlantic Treaty Organization (NATO) member countries. America has led this project's development and execution. From historical American weather modification literature and many other sources, a developmental timeline of this project can be derived. Here is the New Manhattan Project's developmental timeline:

Pre-1946

The New Manhattan Project (NMP) was probably first conceived by Nikola Tesla. Although there is a lack of direct documentary evidence revealing his hand, conceptualizing the use of electromagnetic energy in the context of a weather modification scheme such as this is right up his alley. We have seen that many of his inventions became different aspects of the New Manhattan Project. Documents proving Tesla as the originator of the overall project may exist, but, if they do, they have not been made public.

Tesla died in 1943. That was three years before the combined beginning of the scientific era of weather modification and the kick-off of the New Manhattan Project (ch 2). When Tesla died, the Federal Bureau of Investigation confiscated his papers. A concept for the NMP may have been among those papers.

When Tesla's papers were posthumously confiscated, John G. Trump (1907-1985), a scientist from the Massachusetts Institute of Technology's Radiation Laboratory, officially examined them. As we have seen, the Massachusetts Institute of Technology (MIT) has been central to developing the technologies used today as part of the New Manhattan Project. Let us reference a passage from W. Bernard Carlson's "Tesla: Inventor of the Electrical Age." Carlson writes:

"Consequently, Walter C. Gorsuch of the OAPC [Office of the Alien Property Custodian] went to the Hotel New Yorker and seized all of Tesla's property in his bedroom and the adjoining storeroom. Consisting of two truckloads of material, this property was taken to the Manhattan Storage Company where there were already eighty barrels and bundles that Tesla deposited nine to ten years earlier. To determine whether there was anything vital to the war effort, the OAPC called in John G. Trump to examine the papers. Working on radar at MIT's Radiation Laboratory and an expert on high-voltage generators, Trump was well suited to undertake the review. In addition to Trump, the OAPC allowed one of the top agents from Naval Intelligence, Willis De Vere George, to be present along with two enlisted men. On 26-27 January 1943, Trump reviewed Tesla's files while the navy personnel microfilmed the papers that they found interesting."

If you are wondering... yes, John G. Trump is related to the current Republican nominee for president, Donald Trump. He was his uncle.

In the years between Tesla's death in 1943 and the beginning of the NMP in 1946, longer-term plans for the NMP and shorter-term plans for the famous 1946 rollout may have been concocted. After the end of WWII in 1945, these plans may have been greatly accelerated.

Tesla is known to have conceptualized and realized many things which are or may have been useful to Humanity. That's what he was all about. He wanted the products of science to vastly improve people's lives. Being that today's New Manhattan Project is a mass murder machine and is concurrently wrecking our environment (ch 8), Tesla's intentions (assuming the original concept is his) have been inverted. In life, Tesla was often foiled by the corporate establishment and, in this case, he may have again been foiled in death. In fact, it appears that his old competitor General Electric ended up running away with his invention.

1946-1949

The post-WWII environment was fertile ground for the scientific establishment and the military/industrial complex. These two longtime co-dependents had combined efforts to produce the world's first atomic bombs which had just ended war. Aside from the horrors suffered by the Japanese, this was seen as a good thing. The scientific establishment in particular was suddenly seen as a group of benevolents ready, willing, and able to provide Humanity with solutions to all the world's problems. Into this scenario, stepped General Electric as represented by Irving Langmuir, Vincent Schaefer, and Bernard Vonnegut. They were going to make it rain as needed... on demand... at the push of a button. Their activities suggested future weather control. The ensuing cold war with the Soviets served as a catalyst for many defense related projects including the NMP.

Bernard Vonnegut not only started the cloud seeding industry with his discovery of silver iodide's usefulness as a nucleant. With his space charge experiments, he also went on to bear the New Manhattan Project's standard.

1950-1959

The 1950s saw many space charge experiments conducted by Vonnegut and others (ch 2). These experiments demonstrated the New Manhattan Project's feasibility. Once it was established that weather modification could be accomplished in the fashion of the NMP, large-scale research into the fundamental physics of the atmosphere began. This is evidenced by the large influx of funding and subsequent atmospheric research activities which began in the late 1950s. The basic mechanisms of the greater atmosphere were needed to be understood so that space charge-type experiments could be modified and expanded into larger operations.

Throughout the 1950s, individual elements of the New Manhattan Project began to take shape. The SAGE anti-aircraft system (the nucleus of the New Manhattan Project) began in the early 1950s (ch 6). Extensive, high-level study of weather's effect upon business activity began in the early-to-mid 1950s (ch 7). The first mention of aluminum particles used for weather modification appeared in 1954 (ch 5). In 1955 researchers began injecting materials into the high atmosphere as a way to map the auroral electrojet (ch 6). In the mid-1950s, Norman Phillips perfected the fundamentals of supercomputer atmospheric modeling (ch 6). In 1958 Project Bassoon/Shelf/Sanguine/Seafarer/ELF began (ch 3). This project was the pre-cursor to

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today's ionospheric heaters. Also in 1958, the Central Intelligence Agency's Air America took flight. Air America was one of the airlines which most probably turned into today's chemtrail fleet. The most probable chemtrail fleet aircraft, Boeing's KC-135 made its first appearance at Wright-Patterson AFB in 1957 (ch 4). In the late 1950s the first meteorological instruments were carried aboard satellites (ch 6).

In 1958, the organizational foundations of the New Manhattan Project were laid. The Advanced Research Projects Agency (ARPA / later DARPA) opened its doors in 1958 with Roy Johnson (a General Electric vice president) as the first director. Herb York, who later went on to become the first director of Lawrence Livermore National Labs, served as ARPA's chief scientist. Another great New Manhattan Project progenitor, the National Aeronautics and Space Administration (NASA) was created in 1958. 1958 also saw the establishment of the NMP's probable manager, the MITRE Corporation.

1958 was a big year. In that year, not only did the NMP gain its bureaucratic foothold, but it also saw many other notable events. 1958 saw the earliest mention of the SRM geoengineering thesis as part of the most cited weather modification document, the "Final Report of the Advisory Committee on Weather Control." As part of this same report, the earliest description of the New Manhattan Project appeared in the article "The Future." 1958 also saw the earliest mention of the theory of man-made global warming in Howard T. Oroville's *Popular Science* article "Weather as a Weapon." In 1958 Operation Argus used high-altitude detonations of nuclear bombs to map the auroral electrojet. Lastly, in 1958 the Interdepartmental Committee for Atmospheric Sciences (ICAS) was created and began producing reports.

1960-1969

After many years of successful space charge experiments, basic atmospheric research, initiation of applicable technologies, and the establishment of an appropriate bureaucratic framework, the progenitors of the New Manhattan Project were feeling quite confident. This confidence was demonstrated in Vice Admiral Raborn's 1963 paper "New Horizons of Naval Research" (ch 2). By the early 1960s, the New Manhattan Project was set to roll for a long time. There was another vast increase in government spending. Funding was flowing freely all throughout the 1960s. Much of this spending had no congressional oversight. Those aboard this gravy train were quite happy to be there.

As evidenced by the "Restoring the Quality of Our Environment" document (ch 10), by 1965 the decision to roll out the New Manhattan Project domestically had been made. "Restoring the Quality of Our Environment" began the process of gaining the public's acceptance to airplanes routinely blanketing the country with dispersed particles; the most apparent aspect of the otherwise secret New Manhattan Project. "Restoring the Quality of Our Environment" began the large-scale information war. This was probably about the time that the first experiments involving aircraft dispersed particles and directed electromagnetic energy began. They needed a cover story.

Throughout the 60s, the New Manhattan Project's constituent technologies continued developing. A 1962 report by the National Academy of Sciences expounded upon the usefulness of radioactive isotopes such as barium as atmospheric tracers and throughout the 60s many researchers such as A.C. Zetlemoyer found ways to use different forms of aluminum as nucleants (ch 5). In 1964 Raytheon demonstrated their wirelessly powered helicopter and

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throughout the sixties automated takeoffs and landings of the Boeing KC-135 were demonstrated (ch 4). In 1966 the first known ionospheric heater appeared in Pennsylvania (ch 3).

As far as command and control is concerned, the 60s were a busy time. The Jason scientists began meeting in 1960. In 1960 the National Center for Atmospheric Research (NCAR) began operations in Boulder, CO. Also in 1960, NASA launched the first dedicated weather satellite, TIROS-1. Many other weather satellites were launched into orbit throughout the rest of the 60s. These satellites were complimented by a concurrent overall fortification of our nation's weather data gathering abilities. Remote sensing capabilities flourished. In 1963 the National Science Foundation (NSF) wrote of atmospheric models capable of demonstrating the result of injecting energy into the atmosphere. Major developments in holography continued throughout the 60s. In the late 1960s the improved availability of atmospheric data fostered international cooperation and programs. Also in the late 1960s DARPA began using rockets and an ionospheric heater at Poker Flat, Alaska in order to map the auroral electrojet. Lastly, in the late 1960's the MITRE Corporation was developing an air traffic control system capable of keeping track of as many as 1000 planes (ch 6).

The economic aspects of the New Manhattan Project continued to develop as well. A 1966 book featured a comprehensive plan for the management of a national weather modification program titled "Evaluation of Weather and Climate by Socio-Economic Sensitivity Indices." The catastrophe reinsurance market started in the 1960s with the leading industry association founded in 1968. In their 1968 weather modification report, the NSF laid the foundations of Enron's later weather derivatives market by studying the potential effects of weather modification upon the electrical industry (ch 7).

1970-1979

Throughout the 1970s events in the information war were moving quickly. In 1970 the earliest use of the term 'persistent contrail' yet known to the author appeared in the proceedings of the Second National Conference on Weather Modification. Also in 1970 Gordon J.F. MacDonald's paper "How to Wreck the Environment" was published in the book "Unless Peace Comes." In 1974 the CIA produced their disinformation screed titled "A Study of Climatological Research as It Pertains to Intelligence Problems." This document is about all the dangers posed by 'the climate change' and appears to be the fount of all the fear mongering about how a slight change in the Earth's average temperature will cause the end of the species (ch 10). In 1977 the earliest use of the term 'geoengineering' yet known to the author appeared in the premiere edition of *Climatic Change*. Throughout the atmospheric sciences literature the term 'climate' replaced the term 'weather.' This was also the era when the term and field of 'atmospheric chemistry' became widespread and advanced spectrometers began analyzing the atmosphere for many more elements and compounds.

The electromagnetic energy portion of the NMP saw minimal developments. In 1970 Vice Admiral Raborn became a member of the LTV Electrosystems board. LTV Electrosystems went on to help build the High-Frequency Active Auroral Research Project (HAARP) antenna as E-Systems (ch 2). By the mid-70s, ionospheric heaters had been constructed at Arecibo, Puerto Rico, and Armidale, Australia (ch 3).

The chemtrail fleet continued its development. In 1974 all the airlines formerly of the

Central Intelligence Agency's Pacific Corporation (including Air America) were disbanded. This freed up a lot of airplanes to later be used in the New Manhattan Project. In 1975 Delford Smith got a sweetheart deal when he bought the former CIA proprietary Intermountain Airlines and began his Evergreen Aviation empire. In 1975 E-Systems bought world-class aviation maintenance facilities in Taiwan which formerly belonged to the CIA proprietary airline Air Asia. These were the same facilities known to have been producing the CIA's untraceable aircraft. In 1977 the field of wireless power transmission got a big boost from a joint Department of Energy (DOE) and NASA assessment study of a solar-powered satellite concept (ch 4).

There were some evolutionary chemtrail spray developments. A 1972 ICAS report described how the entire hydrological cycle can be traced with radioactive particles. Throughout the 70s, researchers continued to find new uses of aluminum compounds as nucleants (ch 5).

The New Manhattan Project's command and control apparatus saw major developments. The early 1970s saw continued rocket and ionospheric heater operations at Poker Flat, Alaska. In 1973 Jason moved their headquarters to the facilities of the Stanford Research Institute in Menlo Park, CA. In 1974 a paper by Paul M. Tag established the modern method of computerized atmospheric modeling as it pertains to the influences of artificially produced electromagnetic energy. Beginning in the mid-1970s, Lawrence Livermore National Labs began to establish itself as the nation's premiere atmospheric modeling facility. Throughout the 1970s the field of supercomputer assisted atmospheric modeling continued to develop. In 1977 Jason began studying Earth's climate. By the end of the 'seventies, satellite remote sensing, along with other observational methods, provided excellent global atmospheric monitoring capabilities. These developments enabled the massive 1978 First GARP (Global Atmospheric Research Program) Global Experiment (ch 6).

The economic aspects of the NMP saw some developments. In 1971 an organization called Research Applied to National Needs was created within the National Science Foundation to study the economic benefits of weather modification. Subsequently, throughout the 1970s researchers found positive cost/benefit ratios from weather modification programs. The earliest use of the weather derivative term 'degree day' yet found by the author appears in a 1975 report by James McQuigg (ch 7).

Rounding out the 'seventies, large-scale basic atmospheric research came to a big slowdown with the publication of the last ICAS report in 1978. This marked a transitional period for the NMP; a transition from development to application.

1980-1989

In the 'eighties ionospheric heater developments were moving quickly. Construction of the HIPAS (High Power Auroral Stimulation) observatory began in 1980 and was completed in 1986. In 1987 ARCO Power Technologies Incorporated (APTI) was granted the patent titled "Method and Apparatus for Altering a Region in the Earth's Atmosphere, Ionosphere, and/or Magnetosphere." This is the document which says (among other things) that HAARP can move atmospheric particles for the purpose of weather modification (ch 3).

Throughout the 1980s, chemtrail fleet developments were many. As explained in chapter 4, the developmental timeline of the New Manhattan Project suggests that the offending airplanes began to be retrofitted in about 1980. In 1981 Evergreen Aviation moved to their final resting

place of McMinnville, Oregon. Evergreen's aircraft trading arm, Evergreen Aircraft Sales and Leasing was established in 1983. Evergreen derived the lion's share of their profits from trading aircraft and aircraft parts. The director of the Center for Energy and Combustion Research at the University of California at San Diego suggested in 1984 that commercial airliners emit more and better particles in order to save us from global warming. This provides evidence for the assertion that today's common jet fuel has been spiked with some sort of additive so that common commercial airliners have therefore been added to the chemtrail fleet. Raytheon's William Brown wrote in 1984 that wireless power technologies had advanced to such a stage that researchers were seriously considering using it to the tune of hundreds of thousands of kilowatts for propulsion or payload. In the same piece, Brown depicts and writes of a rectenna attached to the wing of a small airplane said to be achieving 85% efficiency. In 1988 the Davis-Monthan boneyard came under the command of Wright-Patterson AFB; the development site of many technologies used in the New Manhattan Project including HAARP (ch 4).

Chemtrail spray developments appear to have been few. A.C. Zettlemoyer became head of the American Chemical Society in 1981. The 1988 U.S. patent "Selective Thermal Radiators" described how atmospheric particles can be induced, through the use of electromagnetic energy, to heat up while exhibiting the Welsbach effect. This patent was granted to the same inventor listed on the later "Stratospheric Welsbach Seeding for the Reduction of Global Warming" patent. Hughes Aircraft was listed as the assignee on both.

Command and control developments continued. In 1981 Jason left their offices at the Stanford Research Institute and made a new home at facilities owned by the MITRE Corporation. In 1986 Gordon J.F. MacDonald led a group advising the Department of Energy in regards to their new, interagency atmospheric monitoring and analysis effort called the Atmospheric Radiation Measurement program. In the late 1980s NCAR developed the Internet Remote Job Entry System which greatly enhanced the speed of communications between atmospheric modeling supercomputers and end-users (ch 6).

Lastly, Gordon J.F. 'How to Wreck the Environment' MacDonald contributed to the information war by, in Congressional testimony, advocating for a National shift towards natural gas usage and a 'carbon tax' to help fight global warming (ch 6).

1990-1996

In the 1990s, the information war went into overdrive. The earliest use of the term 'chemtrails' yet known to the author appeared as the title of a 1990 U.S. Air Force Academy chemistry manual. Throughout the 1990s, many high-level organizations and individuals began publishing documents advocating for Solar Radiation Management geoengineering (chemtrails). Concurrently, many high-profile individuals began speaking in favor of activities pertaining to the New Manhattan Project.

Assigned to the Hughes Aircraft Corporation, 1991's U.S. patent "Stratospheric Welsbach Seeding for the Reduction of Global Warming" suggested aluminum-spiked jet fuel as a way to disperse particles into the atmosphere in order to save us from global warming. In 1996 the U.S. Air Force released the seminal document "Weather as a Force Multiplier: Owning the Weather in 2025" which outlined the New Manhattan Project. Also in 1996, the Air Force produced "An Operational Analysis for Air Force 2025" which outlined the New Manhattan Project as well. Both of these documents were part of the "Air Force 2025" series which spoke

to an extensive overhaul of operations. In a 1997 paper, Edward Teller et al called for the spraying of megatons of stratospheric aluminum to save us from global warming.

The ionospheric heater aspects of the NMP consolidated. Construction of HAARP began in 1993. E-systems built the first version of HAARP which was completed in 1995. Also in 1995, Raytheon acquired E-Systems. Despite the Department of Defense's denials, all throughout the 1990s, credible documents (including the book "Angels Don't Play This HAARP") were published describing HAARP's ability to modify the weather.

Exciting technologies pertaining to the New Manhattan Projects chemtrail fleet emerged. The 1991 U.S. patent "Power Beaming System" (one of the HAARP patents) outlines the technical details of how to remotely power airplanes. The authors of "Angels Don't Play This HAARP" write that in the early 1990s the technology outlined in this patent was used to keep a microwave-powered aircraft at 80,000 feet for 10,000 hours. The 1996 Air Force document "Aerospace Sanctuary in 2025 - Shrinking the Bull's Eye" described extensive automation of all aspects of routine aircraft handling and maintenance.

The NMP command and control operations thundered along. By 1990, Lawrence Livermore Labs (LLNL) had established itself as the premiere atmospheric modeling facility. Throughout the 1990s, LLNL produced the leading climate models running on the best supercomputer configurations. A 1996 Air Force Document titled "Space Operations: Through the Looking Glass" suggested that satellites of the Iridium constellation can be used to modify terrestrial weather. A 1998 Army document titled "3D Holographic Display Using Strontium Barium Niobate" speaks to a breakthrough ability to both record and produce very realistic holographic imagery in real time and free space.

The financial aspects of a global weather modification project were finalized. Catastrophe bonds first started trading in 1992. In response to increased demand, in 1995 the New York Insurance Department approved the Catastrophe Exchange. This is where catastrophe reinsurance bonds are negotiated today. The first weather derivative transactions were conducted over the counter in 1997. The weather derivatives market was greatly expanded in 1999 when weather derivatives began trading on the Chicago Mercantile Exchange. the leading weather derivatives industry association was founded in 1999. The repeal of Glass-Steagall in 1999 allowed lots of capital to flow into both the catastrophe reinsurance and weather derivatives markets.

This timeline ends at 1996 because that is about the time, as evidenced by reports such as those contained in the book "Chemtrails Confirmed," at which large-scale deployment of this project began. From the time large-scale deployment of this program began, we can reasonably expect that further developments would be, for the most part, only in size and scope rather than technological.

Since the mid-1990s, the information warriors at the CIA have continued to launch assaults upon our consciousness. Top level government and scientific organizations have continued to advocate for the New Manhattan Project.

We can assume that at least incremental technological advancements have been achieved.

As collected by the Arizona Department of Environmental Quality, the California Air Resources Board, Francis Mangels, and countless other individuals, hard evidence of the New Manhattan Project chemtrail spraying operations have since been realized.

"Some of the biggest men in the United States, in the field of commerce and manufacture, are afraid of something. They know that there is a power somewhere, so organized, so subtle, so watchful, so interlocked, so pervasive, that they had better not speak above their breath when they speak in condemnation of it."

-U.S. President Woodrow Wilson

As we have seen, the New Manhattan Project has been and continues to be a coordinated effort between many organizations from many different disciplines. The New Manhattan Project involves the world's most prominent organizations: scientific, military, political, intelligence, industrial, media, and others. Who has the power to orchestrate all these seemingly disparate groups? What organization is capable of directing the New Manhattan Project from its origins to its advanced state today? It has obviously been a coordinated effort. For its coordination, somebody or something has to be responsible.

Evidence suggests that a group called the Committee of 300, also known as The Network of Global Corporate Control is responsible.

In his magnum opus "The Conspirator's Hierarchy: The Committee of 300," Dr. John Coleman asserts that this Committee evolved from the British East India Company and currently consists of some of the most prominent movers and shakers of the Western world. He asserts that this supra-national Committee commands the Western world's most dominant movements of: science, militaries, politics, intelligence, industry, and media. He asserts that the Committee of 300 commands most of the organizations we have since come to know as the developers and most probable implementors of the New Manhattan Project. Dr. Coleman asserts that the Committee of 300 controls or heavily influences: Stanford Research International, the United Nations, the North Atlantic Treaty Organization, the Columbia Broadcasting System (CBS), the *New York Times*, the *Washington Post*, General Electric, International Business Machines (IBM), Raytheon, UBS Warburg, Brown Brothers Harriman, the Massachusetts Institute of Technology (MIT), the Institute for Defense Analyses, the Central Intelligence Agency (CIA), the RAND Corporation, the Council on Foreign Relations, and the Ford Foundation. We will summarize some of these organizations' New Manhattan Project involvement in the next chapter "Organizations and Persons of Interest."

Dr. Coleman asserts that the Committee of 300's executive council is referred to as "The Olympians" and that their chairperson is the Queen of England, Queen Elizabeth II.

A few men whom we have found to be implicated in the New Manhattan Project's development and implementation are purportedly members of this Committee. These men are: George Herbert Walker Bush (Bush Sr.), the former U.S. ambassador to NATO Harlan Cleveland, former Rhode Island Senator Claiborne Pell, and Jay Forrester of MIT. George Herbert Walker Bush and Jay Forrester are still alive. In this chapter, we will only concern ourselves with lives which have already been concluded.

As noted in the first chapter, Dr. Harlan Cleveland (1918-2008) is on record talking the talk. In 1976, the aforementioned MITRE Corporation (ch 6) sponsored the Aspen Institute's Symposium on Living with Climactic Change. Dr. Coleman writes that the Aspen Institute is one of the Committee of 300's main vehicles. One of the transcripts published in the proceedings of these talks was something titled "The Climate for a New World Order." This

was Harlan Cleveland's talk. The gist of his speech was that the validity of the science of man-made climate change is not important because the theory is simply a good way to bring about a necessary, authoritarian New World Order. He said:

"There are two options, each of them backed by weighty evidence, or at least by weighty meteorologists. One is that the weather is getting warmer. The other is that the weather is getting colder. You can pay your scientists and take your choice."

Cleveland served as the director of international affairs at the Aspen Institute from 1974 to 1980.

Cleveland became LBJ's ambassador to NATO in 1965. The following year, French president Charles de Gaulle pulled France out of NATO and banished it from French soil. Of Mr. Cleveland, Dr. Coleman writes:

"Cleveland was a top official in the Club of Rome and what one intelligence officer described as a 'Socialist specialist on China.' Cleveland got his Socialist education at Oxford in 1938. He later became Assistant Secretary of State for International Affairs, and the UNRRA [United Nations Relief and Rehabilitation Administration] delegate to China and a director of the ECA [Bureau of Educational and Cultural Affairs] China program. Cleveland had a perception, that the way America was going was not the way the Socialists wanted it to go and methods had to be devised to make America change direction. The Institute for Social Relations and the Club of Rome were the vehicles he felt could be instrumental in bringing about the changes needed to socialize America."



Harlan Cleveland

Image source: Wikimedia Commons

Dr. Coleman writes that former Rhode Island senator Claiborne Pell (1918-2009) was the leader of the American chapter of the Club of Rome. Coleman describes the Club of Rome as instrumental to the Committee of 300. Pell attended the 1945 conference in San Francisco

where the United Nations (UN) was established. We have seen many UN connections to the New Manhattan Project and the theory of man-made global warming.

Supporting Dr. Coleman's thesis is a 2011 study produced by three mathematicians from the Federal Institute of Technology in Zurich, Switzerland titled "The Network of Global Corporate Control." This report scientifically proves the existence of a supra-national mega-conglomerate with the capability to exert a highly disproportionate influence over the Western world. Intuitively, we have always known it is there. Now it is proven. Vitali, Glattfelder, and Battiston write:

"We present the first investigation of the architecture of the international ownership network, along with the computation of the control held by each global player. We find that transnational corporations form a giant bow-tie structure and that a large portion of control flows to a small tightly-knit core of financial institutions. This core can be seen as an economic 'super-entity' that raises new important issues both for researchers and policy makers."

The authors state that the nucleus of the Network consists of: Franklin Resources, Prudential Financial, Commerzbank AG, Morgan Stanley, Credit Suisse, AXA, Citigroup, Deutsche Bank AG, Merrill Lynch, Barclays PLC, Bank of America Corp., UBS AG, JP Morgan Chase & Co., State Street Corp., T. Rowe Price, and Goldman Sachs. Barclays is noted as the most powerful overall. Of these financial corporations determined to be at the center of this Network, two have been named by Coleman as instrumental to the Committee of 300. Those corporations named are Credit Suisse and Barclays.

Nazi Connections

Being that the Nazi regime of World War II had little regard for Human life, lots of cutting edge-technology, and an authoritarian power structure, one can see how their former scientists would fit right into something like the New Manhattan Project. Evidence suggests that this is what has taken place.

Chapter 6 mentioned Operation Paperclip. In the years after WWII, Operation Paperclip was conducted in order to make over 1,600 former Nazi scientists America's own. These scientists went to work for our army, navy, air force, and Central Intelligence Agency (CIA). Operation Paperclip was originally supported by an investigation into Nazi science and scientists called Operation Alsos. Operation Alsos was an offshoot of the original Manhattan Project.

A man named Colonel Donald L. Putt (1905-1988) was instrumental to Operation Paperclip and in charge of Operation Paperclip's activities at Wright-Patterson AFB. The then Wright Field was where all the information gathered by Operation Alsos and other similar operations was organized and archived. By the fall of 1946, there were 140 Nazi scientists working at Wright Field under Colonel Putt. Review chapters 4 and 8 for Wright-Patterson's connections to the New Manhattan Project. Colonel Putt was also the man in charge of modifying the B-29 bomber that dropped its nuclear payloads on Hiroshima and Nagasaki.

Of all the Nazi scientists spirited into the U.S., the most famous was rocket scientist and former SS officer Wernher von Braun (1912-1977). By the end of January, 1946, 115 Nazi rocket scientists, including von Braun, were working out of Fort Bliss, Texas. Small groups of these scientists were periodically sent to the White Sands proving ground where they lived in

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barracks alongside men from the General Electric Company. White Sands ended up launching 64 V-2 rockets. Chapter 6 recounts the use of modified versions of von Braun's V-2 rocket for atmospheric sounding and satellite delivery.

Another Nazi scientist by the name of Kurt Debus (1908-1983) became the first director of the National Aeronautics and Space Administration's John F. Kennedy Space Center in Florida. As we have seen, NASA has been instrumental in the development of technologies used in the New Manhattan Project.

In 1958, yet another famous Nazi scientist and developer of the V-2 rocket by the name of Dr. Martin Schilling (1911-2000) went to work for those great progenitors of the New Manhattan Project; Raytheon. At Raytheon, he attained the rank of vice president for research and engineering.

NASA's Nazi's were a powerful bunch. Annie Jacobsen writes:

"In 1960, von Braun and a group of approximately 120 Operation Paperclip scientists, engineers, and technicians were transferred from the army to the newly established National Aeronautics and Space Administration, or NASA, with a mandate to build the Saturn rockets designed to take man to the moon. Von Braun was made director of the new NASA facility, the Marshall Space Flight Center..."

Jacobsen continues:

"The Saturn V rocket would need its own launch complex and hangar. Cape Canaveral, on Florida's east coast, was chosen as the perfect site. On July 1, 1962, NASA activated its Launch Operations Center there, naming Kurt Debus as director. Debus was the ardent Nazi who, during the war and on his own volition, had turned an engineering colleague over to the Gestapo for making anti-Hitler remarks. To house the giant Saturn rocket, NASA constructed the Vertical Assembly Building on nearby Merritt Island. The structure would soon become the most voluminous building in the world - larger than the Pentagon and almost as tall as the Washington Monument."

As part of Operation Paperclip, it is noted in chapter 6 that Allen Puckett, a Hughes executive, was asked to visit Germany in order to select Nazi scientists for U.S. weapons development programs. Later acquired by those great progenitors of the New Manhattan Project, Raytheon, Hughes was active in many areas applicable to the NMP such as: radar, satellites, and air traffic control. Former Hughes executive John Richardson worked at Wright-Patterson AFB where he made longtime business contacts. Hughes worked on many highly classified projects. Hughes was also the assignee of the infamous 1991 "Welsbach Seeding" patent (ch 5) and contracted for Vice Admiral Raborn's (ch 3) Polaris project.



William Raborn visiting a Hughes factory

Image source: The Donning Company Publishers / Hughes

In 1962, the organization that oversaw Operation Paperclip was disbanded. What remained of the Paperclip program was taken over by the Pentagon's Research and Engineering Department; an Advanced Research Projects Agency (ARPA) division. Today this department is known as the Department of Defense Research and Engineering Enterprise; a Defense Advanced Research Projects Agency (DARPA) department. Operation Paperclip was folded into DARPA. The evidence suggests that DARPA has been overseeing the New Manhattan Project from the beginning and on through to today.

In closing

Former United States President Dwight D. Eisenhower was famous for warning the American people in early 1961 about the rise of what he termed 'the military/industrial complex.' The first chief scientist of DARPA (then ARPA) Herb York asked Eisenhower what he meant by this. Annie Jacobsen recounts the story:

"In the mid-1960s, York went to visit Eisenhower at the former president's winter home, in the California desert. 'I asked him to explain more fully what he meant by the warnings, but he declined to do so,' York said. 'I pressed this line of questions further by asking him whether he had any particular people in mind when he warned us about "the danger that public policy could itself become the captive of a scientific-technological elite.'" York was surprised when Eisenhower 'answered without hesitation: "(Wernher von Braun and (Edward) Teller [father of the hydrogen bomb].""

Eisenhower warned us about the New Manhattan Project.

It's not the weather or the climate which need to be brought under our control. We need to bring the military/industrial complex under control and abolish the CIA.

notes

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Chapter 12

ORGANIZATIONS and PERSONS of INTEREST

This investigation concludes that there are many organizations and persons here worthy of further inquiry. They are listed here along with the reasons why they are being placed in this category. Although many more people and organizations are undoubtedly involved in the greatest scientific endeavor in Human history, these are the most obvious choices. The organizations are listed here first because most of the interesting people are a subset of an interesting organization or organizations.

Organizations

The Mitre Corporation is probably the New Manhattan Project's day-to-day manager. They may be the only single organization in the world capable. They have a long history involving: ionospheric heaters, advanced air traffic control systems, remotely controlled aircraft, satellite communications, atmospheric data collection, supercomputing, and command and control centers. For details, review chapter 6. Almost all of their work in these areas has come from the U.S. Department of Defense (DOD) and we have seen historical DOD involvement in every technological aspect of the NMP as well.

The MITRE Corporation was founded in 1958 with about 500 employees from the Massachusetts Institute of Technology's Lincoln Laboratory. As we have seen, the Massachusetts Institute of Technology (MIT) has been central to the development of technologies utilized as part of the NMP. The MITRE Corporation has strong connections to many others implicated here such as: the RAND Corporation, Boeing, Stanford Research International, NORAD, Jason, the original Manhattan Project, Edward Teller, Gordon J.F. MacDonald, and more.

The Mitre Corporation's Metrek Division looks particularly interesting because this is the group noted as sponsors for the Aspen Institute's 1977 "Living with Climactic Change" symposium. This is the gathering at which Harland Cleveland gave his aforementioned "The Climate for a New World Order" speech.

Lawrence Livermore National Laboratories (LLNL) has been instrumental in developing the atmospheric modeling and supercomputing capabilities probably used by today's New Manhattan Project. For details, review chapter 6. For these reasons, and Livermore's high security, LLNL is the most probable location for a NMP command center.

Edward Teller, who advocated that the Earth be sprayed with what we have since come to

know as the NMP's number one chemical ingredient (aluminum), worked at LLNL for many years. The papers in which he advocated for global aluminum spraying were produced by LLNL.

LLNL has been involved with the development of ionospheric heaters such as the one at the HIPAS facility at Two Rivers, Alaska.

LLNL's Atmospheric, Earth, and Energy Division looks particularly interesting. It is home to their climate modeling effort known as the Program for Climate Model Diagnosis and Intercomparison.

Raytheon appears to be contracting the New Manhattan Project's electromagnetic energy operations. They own all of the most significant patents. They own all the HAARP patents and both of the Chang patents. The Chang patents are "Selective Thermal Radiators" and the infamous "Stratospheric Welsbach Seeding for the Reduction of Global Warming." They acquired the two companies to which all of these patents were assigned: Hughes Aircraft and APTI/E-Systems (ch 3). Before all of the companies mentioned here were acquired, Raytheon worked with them extensively.

They produced the guidance system for Vice Admiral Raborn's Polaris Submarine Launched Ballistic Missile (SLBM) program.

They have always been at the forefront of wirelessly powered aircraft. They have been involved in mapping the auroral electrojet. They are involved in satellite communications.

Raytheon engineers Percy Spencer and Robert Quimby worked on an original Manhattan Project ignition design.

Their Space and Airborne Systems division looks particularly interesting.

The Massachusetts Institute of Technology (MIT) has been central to the development of technologies used in the New Manhattan Project. It might be more pertinent to ask in which technologies of the New Manhattan project have they *not* been involved.

They have been involved in weather modification since the 1930s when their professor Henry G. Houghton sprayed calcium chloride to dissipate ground fog (ch 2). One of the founders of Raytheon, Vannevar Bush (1890-1974), was an MIT professor and strong supporter of weather control. Before he helped kick off the New Manhattan Project in 1946, Bernard Vonnegut worked in their Chemical Engineering Department. MIT was involved in space charge experiments. They helped develop HAARP. The inventor of HAARP got his Bachelor's degree from MIT. The MITRE Corporation was founded out of MIT's Lincoln Lab. They have developed leading holography technologies. Gordon J.F. MacDonald taught geophysics there. As we will see in the next section, many NMP persons of interest were educated and taught there.

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The Defense Advanced Research Projects Agency (DARPA) appears to be the Department of Defense agency in charge of overseeing the New Manhattan Project. It appears that they have been overseeing this project since the beginning. They have been deeply involved in weather modification and the atmospheric sciences since their formation in 1958. They have been involved in the development of many technologies used in today's New Manhattan Project.

They have been deeply involved in HAARP's development and are currently a co-manager of the facility. They have been very active at the Arecibo, Puerto Rico ionospheric heater as well. They have been deeply involved in mapping the Earth's auroral electrojet. They helped develop the earliest atmospheric remote sensing technologies. With LLNL, they have been instrumental in supercomputing and the development of computerized atmospheric models. Jason has historically worked mostly for DARPA and specifically has done work for them pertaining to climate issues. Jason's first sponsor was DARPA's first chief scientist and the first director of LLNL, Herb York.

Of particular interest is the Department of Defense Research and Engineering Enterprise; a Defense Advanced Research Projects Agency (DARPA) department. This is the organization that took over the remaining portions of Operation Paperclip (ch 11).

The Department of Defense (DOD) has been overseeing weather modification and atmospheric sciences at least since the beginning of the New Manhattan Project. To name all the instances of a U.S. military organization involving itself in such activities here would be quite tedious. The pages of this book are replete with examples. The New Manhattan Project is a military program. That is well established. Unequivocally proving U.S. DOD involvement is a job for government investigators. One could start by looking at DARPA and the MITRE Corporation.

Of particular interest are the Office of Naval Research and the Defense Science Board.

The North American Aerospace Defense Command (NORAD) is probably involved in the New Manhattan Project's chemtrail fleet aircraft control operations. NORAD is the most dominant air traffic controller in America and Canada. Airplanes at 40,000 feet aren't going to go around routinely spraying megatons of toxic garbage without them knowing about it. They are built into the same geological formation as NCAR. The MITRE Corporation has worked extensively there.

The National Oceanic and Atmospheric Administration (NOAA) has been deeply involved in weather modification and the atmospheric sciences going back to their predecessor the Environmental Science Services Administration (ESSA). In 1965 ESSA took over the nation's atmospheric data collection duties. By 1967 ESSA had studied the large-scale hydrology of North America east of the Rockies with the Travelers Insurance Company (ch 7). ESSA

produced the paper titled "Evaluation of Weather and Climate by Socio-Economic Sensitivity Indices" which established a nationwide comprehensive plan for the management of weather modification programs. NOAA was involved at the Alaskan HIPAS observatory (ch 3). Both ESSA and NOAA launched weather satellite series. NOAA has participated in many international atmospheric sciences programs. NOAA has been involved in the development of cutting edge computerized atmospheric models.

Of particular interest are NOAA's Air Resources Laboratory, their National Centers for Environmental Information, and their Climate Program Office.

The Department of Energy (DOE) succeeded the Atomic Energy Commission. The Atomic Energy Commission was in charge of the original Manhattan Project.

Their Environmental Sciences Division created LLNL's Program for Climate Model Diagnosis and Intercomparison (ch 6) and has been instrumental in the development of cutting edge climate models. The DOE funded the development of the Community Climate System Model Version 3. They benefitted from LLNL's Accelerated Strategic Computing Initiative. There are strong connections between the DOE and Jason, which has done climate studies for DOE. Gordon J.F. MacDonald advised DOE in regards to their Atmospheric Radiation Measurement program.

Their Atmospheric Radiation Measurement (ARM) program is particularly interesting as well as their Office of Science, Climate, and Environmental Sciences Division. The DOE's Office of Science has roots going back to the original Manhattan Project. The ARM program maintains a heavily instrumented facility today southeast of Lamont, Oklahoma. Lastly, their Biological and Environmental Research division appears to be of particular interest.

The United States Department of State would necessarily need to know. The New Manhattan Project is international in scope, so our American officials would necessarily need to be in contact with other participating nations. A good place to look for NMP involvement might be their Bureau of Oceans and International Environmental and Scientific Affairs.

The National Science Foundation (NSF) has been instrumental in conducting the research and development of technologies used in the New Manhattan Project. In order to develop these technologies, their role has been to coordinate the involvement of American universities. They regularly reported to the ICAS. They produced a series of annual weather modification reports between 1960 and 1968 which contain much useful information. They have been involved in internationally coordinated atmospheric data gathering exercises. They have worked with every organization and helped develop every technology involved.

As far as their possible involvement in today's New Manhattan Project is concerned, a good place to look might be in their Directorate for Geosciences, Atmospheric, and Geospace

The National Academies of Science, Engineering, and Medicine has contributed greatly to weather modification and the atmospheric sciences. They serve in a capacity similar to that of the National Science Foundation. They have been producing climate oriented reports lately. A good place to look for their involvement in today's NMP might be their Board on Atmospheric Sciences and Climate.

The North Atlantic Treaty Organization (NATO) appears to be involved largely due to the globally disproportionate chemtrail spraying activities reported in NATO member countries. We have learned that the New Manhattan Project is, in its nature, a military program. So it makes sense that a supra-national military organization be involved. It is necessarily supra-national because the NMP aircraft routinely enter many nations' airspaces.

A passage from a 1964 Interdepartmental Committee for Atmospheric Sciences (ICAS) report shows that NATO has been involved in the atmospheric sciences. It reads:

"The Department of Defense research programs covering basic research areas similar to those of the National Bureau of Standards and the Weather Bureau also provide for cooperative research efforts largely with nationals of the North Atlantic Treaty Organization (NATO), and for support of U.S. interests in the international cooperative organizations such as WMO [World Meteorological Organization], URSI [International Union of Radio Science], COSPAR [Committee on Space Research], etc."

As noted in the previous chapter, Harlan Cleveland served as a U.S. ambassador to NATO. As noted in chapter 10, a NATO commander by the name of Fabio Mini has blown the chemtrail whistle.

The United Nations (UN) has been involved at the highest levels of weather modification and the atmospheric sciences for a long time. They have also issued many reports suggesting and advocating for SRM geoengineering. They were involved in the origins of the chemtrail fleet (ch 4). They have been deeply involved for a long time in global atmospheric data collection and monitoring (ch 6).

Of particular interest here are: their Intergovernmental Panel on Climate Change (IPCC), their World Meteorological Organization (WMO), World Weather Research Program, Expert Team on Weather Modification, their Global Atmosphere Watch, and their Environment Programme.

The Boeing Corporation provided the aircraft for the SAGE system which, as described in chapter 6, most probably served as the nucleus of this Project.

Boeing is also the maker of both the KC-135 and the 707 which have been expertly identified as chemtrail spraying planes. As detailed in chapter 4, the KC-135 in particular is extraordinarily suitable for use in the New Manhattan Project.

They have been involved in the development of wireless power transmission technologies. Boeing has been granted many patents applicable to systems of remotely piloted and powered aircraft (ch 4) as well as satellite remote sensing (ch 6). The U.S. patents titled "Aiming Feedback Control for Multiple Energy Beams," "Method and System for Controlling a Network for Power Beam Transmission," "Methods and Systems for Beam Powered Propulsion," "Photovoltaic Receiver for Beamed Power," "System and Method for Using Iridium Satellite Signals for Meteorological Measurements," and "Airborne Weather Profiler Network" are all assigned to Boeing.

The National Center for Atmospheric Research (NCAR) has been involved in weather modification and the atmospheric sciences for a long time. They have focussed on atmospheric modeling and supercomputing. NCAR has worked extensively with LLNL. For these reasons, NCAR is another probable NMP command center location.

The University Corporation for Atmospheric Research (UCAR) is NCAR's parent corporation.

The Council on Foreign Relations has published many papers advocating for SRM geoengineering. Coleman describes the Council on Foreign Relations as, "...the Committee of 300's 'branch office' in the U.S.."

Stanford Research International has been deeply involved in weather modification and the atmospheric sciences for a long time. They have been very active at the Poker Flat and Arecibo ionospheric heaters.

Their Center for Geospace Studies looks particularly interesting.

Wright-Patterson Air Force Base has been the source of many technologies pertinent to the New Manhattan Project. They have historically been the main R&D center for the KC-135

which has been expertly identified as a chemical spraying plane (ch 4). They have produced much of the leading HAARP research. Many organizations implicated in the New Manhattan Project such as the Rome Air Development Center, the Davis-Monthan boneyard, and the Air Force Research Laboratory have come under Wright-Patterson's command. They conducted studies pertaining to the inhalation of nano-sized aluminum particles. One of these studies even suggested that people would be exposed to aluminum particles due to jet engine exhausts.

Of particular interest appear to be their Office of Scientific Research and Air Force Research Laboratory.

The Carnegie Foundation is involved in geoengineering. An early and prominent proponent of weather modification, the aforementioned Vannevar Bush served as head of the organization. Gordon J.F. MacDonald did work for them. Today the famous geoengineer Ken Caldeira is a senior scientist in their Department of Global Ecology and runs a Carnegie Foundation laboratory named after him.

The Solar Radiation Management Governance Initiative is a geoengineering advocacy group.

The Bipartisan Policy Center Task Force on Climate Remediation Research is another geoengineering advocacy group.

Jason may have been instrumental in bringing together elements of the New Manhattan Project which resulted in a functional whole. But, over the years, the power and influence of this group appears to have diminished greatly. Although they are worthy of mention here, your author does not suspect that Jason is involved in the execution of today's NMP.

Swiss Re has been the most prominent participant in weather derivatives (ch 7).

UBS was the recipient of Enron's weather derivatives business (ch 7).

Kinder Morgan ended up with Enron's only real assets; natural gas pipelines.

Brown Brothers Harriman may have some sort of financial involvement. In his book "The Committee of 300," Coleman describes Brown Brothers Harriman as, "...the Committee of 300 banking firm." Brown Brothers Harriman also has extensive ties to the Bush family and we have seen the many connections there (ch 7).

Relativity Capital bought Evergreen's maintenance and repair facilities at Pinal Airpark (ch 4).

Persons

David Keith describes SRM geoengineering as, "...not really a moral hazard. It's more like free riding on our grandkids." This comes from a man who, in his syntax and grammatical error laden book "A Case for Climate Engineering," advocates for spraying the Earth with many thousands of tons of sulphuric acid annually. This man is not confined to a mental institution, but rather he is one of the most prominent proponents of SRM geoengineering.

As previously noted in chapter 5, David Keith is heavily invested in geoengineering. A company he founded called Carbon Engineering is currently going about removing carbon from the atmosphere. He writes in his book that his SRM geoengineering research has been funded by research grants and a personal grant from William Gates III. Keith also writes that he occasionally advises Gates on related subjects. In other words, if geoengineering becomes a fully legal, generally accepted practice, David Keith gets filthy, stinking rich. Maybe now one can guess why he is a geoengineering advocate.

Ken Caldeira is another of the most famous geoengineers. He used to work at Lawrence Livermore Labs where he researched climate. He has worked as a climate modeler. He has served on many committees and helped to produce reports for many of the top level atmospheric science institutions listed in this book such as the National Academy of Sciences and the UN's Intergovernmental Panel on Climate Change (IPCC). He is a Fellow of the American Geophysical Union. He has held the position of senior scientist at the Carnegie Institution's Department of Global Ecology on the Stanford University campus in California since 2005 where Bill Gates supports his work. Caldeira is also a Professor (by courtesy) in Stanford University's Department of Earth System Science. He is another advocate of SRM geoengineering whose career and life is set to be greatly enhanced by the legitimization of these programs.



Ken Caldeira

Image source: Stanford University

John P. Holdren may be the world's most prominent proponent of SRM geoengineering (ch 9). From his perch as scientific advisor to President Barak Obama, Holdren regurgitates the standard lines about how chemtrails do not exist, but if global warming gets really bad, we should consider spraying the Earth with megatons of toxic garbage. He would not be speaking this irresponsibly without a reason. He probably knows more than he is telling.

Before taking his current position, Mr. Holdren was a professor in Harvard's Department of Earth and Planetary Sciences. Dr. Holdren holds advanced degrees in aerospace engineering and theoretical plasma physics from MIT and Stanford. He has connections to many of the top level scientific organizations noted in the pages of this book.

William H. Gates III personally funds SRM geoengineering research. As noted in chapter 9, the Fund for Innovative Climate and Energy Research (FICER), an organization funded by Mr. Bill Gates (Microsoft), gives grants to the University of Calgary. FICER proposes "...adding reflective aerosols (small particles suspended in air) to the stratosphere..." Mr. Bill Gates is a population reduction advocate. FICER funds both David Keith and Ken Caldeira.

Jane C.S. Long is a geoengineer who was in charge of climate research at Lawrence Livermore National Labs. Her official title as of 2004 was Associate Director for Energy and Environment. She was a chairperson on the Geoengineering Task Force of the aforementioned Bipartisan Policy Center. In a 2015 paper, she and her co-authors advocated for SRM geoengineering.



Jane Long

Image source: Lawrence Livermore National Labs

Jay W. Forrester of the Massachusetts Institute of Technology is named by Coleman as a member of the Committee of 300. He has also been instrumental in the development of technologies most probably used as part of today's New Manhattan Project. Today, at age 97, he is the Professor Emeritus of Management in System Dynamics at the MIT Sloan School of Management.

Forrester was the chief architect of the SAGE anti-missile defense system which most probably served as the NMP's early nucleus (ch 6). In 1950, he was recruited by George E. Valley to turn the supercomputer Forrester was working on (Whirlwind) into the brain of the SAGE system. This SAGE system was the first use of computers for air traffic control. The SAGE system was also the project that, in 1958, was transferred to the newly established MITRE Corporation.



Jay Forrester

Image source: unknown

Brian J. Tillotson is the inventor listed on many patents applicable to the New Manhattan Project. Many of which are assigned to the Boeing Corporation because Tillotson works for Boeing. His patents pertain to remotely powered and controlled aircraft as well as all sorts of atmospheric monitoring equipment and include such titles as: "Photovoltaic Receiver for Beamed Power," "Method and System for Controlling a Network for Power Beam Transmission," "Aiming Feedback Control for Multiple Energy Beams," "Methods and Systems for Beam Powered Propulsion," "Unmanned Vehicle and System," "System and Method for Using Iridium Satellite Signals for Meteorological Measurements," and "Airborne Weather Profiler Network."

A compendium of his patents is available online.

<http://patents.justia.com/inventor/brian-j-tillotson>

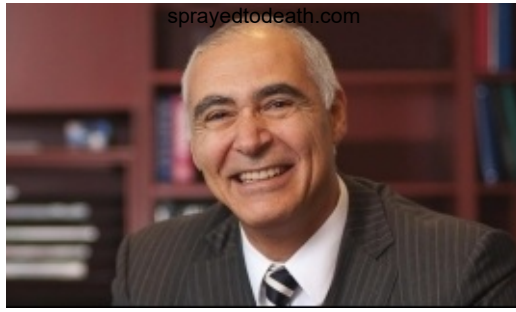
Dean N. Williams has been at the forefront of computerized atmospheric modeling for many years. His current position is that of a computer scientist in Lawrence Livermore's Program for Climate Model Diagnosis and Intercomparison (PCMDI). This is the organization which has most likely produced the atmospheric computer model(s) used as part of the New Manhattan Project.



Dean Williams

Image source: the Department of Energy, Office of Science

Alfred Grasso is the president and CEO of the MITRE Corporation.



Alfred Grasso

Image source: the MITRE Corporation

William Drew (Bill) Collins is an internationally recognized expert in climate modeling and climate change science. He is currently the Division Director of Climate and Ecosystem Sciences in the Earth and Environmental Sciences Area at the Lawrence Berkeley National Laboratory. From 1996-2008 he worked at the National Center for Atmospheric Research (NCAR), eventually reaching the position of NCAR senior scientist in 2007.

Frank Nutter is the President of the Reinsurance Association of America since 1991. He has served on the Council of the American Meteorological Society and the Board of the University Corporation for Atmospheric Research. As noted in chapter 7, in the early 1990s Mr. Nutter pushed for a revised and expanded reinsurance market stating that, "...the insurance business is first in line to be affected by climate change."



Frank Nutter

Image source: the American Geophysical Union

General Ronald R. Fogleman, as noted in chapter 2, is the man who ordered the production of the *Air Force 2025* set of documents which contained the infamous "Weather as a Force Multiplier: Owning the Weather in 2025." *Air Force 2025* also contained many other documents pertinent to the New Manhattan Project which have been noted throughout the pages of this book. Those include the titles: "Aerospace Sanctuary in 2025 - Shrinking the Bull's Eye," "Space Operations: Through the Looking Glass (Global Area Strike System)," and "An Operational Analysis for Air Force 2025." As of their 2012 annual report, General Fogelman served on the MITRE Corporation's board of trustees.



Ronald Fogleman

Image source: U.S. Air Force

Richard A. Anthes served as the president of the University Corporation for Atmospheric Research from 1988 to 2012. Dr. Anthes was elected as an American Meteorological Society (AMS) Fellow in 1979. He began working at NCAR in 1981 when he became the director of NCAR's Atmospheric Analysis and Prediction Division. In 1986, he became the director of NCAR. In 2000 he was elected an American Geophysical Union Fellow. In 2006, he was elected as president of the AMS. He has participated in or chaired over 40 different national committees for agencies such as NASA, NOAA, AMS, NSF, and the National Academy of Sciences (the usual suspects). He was the chair of the National Weather Service Modernization Committee from 1996-1999. But he has no knowledge of any global weather modification program.



Richard Anthes

Image source: the University Corporation for Atmospheric Research

Phil Jones is the Research Director of the Climatic Research Unit and a Professor in the School of Environmental Sciences at the University of East Anglia in Norwich. He is involved in many other high level climatological organizations from which he has received numerous awards and other accolades. He is also one of the scientists caught with their pants down during the Climategate scandal of late 2009. As noted in chapter 6, he had something to do with the creation of the particular climate model most probably used as part of today's New Manhattan Project.

Greg L. Zacharias is the Chief Scientist of the U.S. Air Force. He got his Bachelor's, Master's, and Doctorate at the Massachusetts Institute of Technology. His first job was with MIT and all his subsequent jobs (except for one at NASA's Johnson Space Center) were in the Boston area. As we have seen, MIT and the Boston area has been the epicenter of NMP development.



Image source: U.S. Air Force

Benjamin D. Santer works at the Lawrence Livermore PCMDI. He got his bachelor's degree at the University of East Anglia. He got his PhD in climatology at the Climate Research Unit of the University of East Anglia. He was the lead author of a chapter appearing in the 1995 IPCC report. He is a steadfast and very public adherent of the thoroughly debunked theory of man made global warming. It makes one wonder why.



Benjamin Santer

Image source: unknown

John M. Deutch is an emeritus Institute Professor at the Massachusetts Institute of Technology. He got a bachelor's degree in chemical engineering and a PhD in physical chemistry from MIT. Mr. Deutch has been a member of the MIT faculty since 1970. From 1977 to 1980, he served in a number of positions for the U.S. Department of Energy: as Director of Energy Research, Acting Assistant Secretary for Energy Technology, and Undersecretary of the Department. From March 1993 to March 1994, Dr. Deutch served as Under Secretary of Defense for Acquisitions and Technology. From March 1994 to May 1995, he served as the Deputy Secretary of Defense. In 1995 he became the Director of Central Intelligence and served for a little over one year. He has served as a director at Raytheon. He has also served on a slew of presidential committees relating to technology, aviation, and information. Awards and accolades have been heaped upon his chest.



John Deutch

Image source: the Massachusetts Institute of Technology

Phil Rasch is the Chief Scientist for Climate Science at the Pacific Northwest National Laboratory (PNNL). He provides leadership and direction to PNNL's Atmospheric Sciences and Global Change Division. His PNNL bio states:

"The Division conducts research on the long-term impact of human activities on climate and natural resources using a research strategy that starts with measurements and carries that information into models, with a goal of improving the nation's ability to predict climate change."

Does that sound like the New Manhattan Project? If that didn't, then try this one:

"He is particularly interested in the role of aerosols and clouds in the atmosphere, and has worked on the processes that describe these components of the atmosphere, the computational details that are needed to describe them in computer models, and on their impact on climate. For the last five years, he helped to lead the technical development team for the next generation of the atmospheric component of the Community Climate System Model Project, one of the major climate modeling activities in the United States. He also studies geoengineering, or the intentional manipulation of the atmosphere to counteract global warming."

Mr. Rasch conducted part of his PhD studies at NCAR. Following his PhD, Rasch remained at NCAR, first as an Advanced Study Program Postdoctoral Fellow, then as a scientist where he worked in various positions. From 2004 to 2008, he was a chairman of the International Global Atmospheric Chemistry Program and is on the steering and scientific committees of a number of international scientific organizations. He has contributed to scientific assessments for the World Meteorological Organization, NASA, and the Intergovernmental Panel on Climate Change. He joined PNNL in 2008.

Alfred Wong is the director of the Plasma Physics Laboratory at the University of California at Los Angeles (UCLA). As noted in chapter 3, he was the founder and director of the HIPAS ionospheric heater in Alaska. At the time of its acknowledged operation, it was one of the most powerful in the world. This is the location where my science advisor says Vice Admiral Raborn's ATMOS program was conducted.



Alfred Wong
Image source: UCLA

Kevin E. Trenberth is a Senior Scientist in the Climate Analysis Section at the National Center for Atmospheric Research (NCAR). He got his Doctor of Science degree in meteorology from the Massachusetts Institute of Technology. He was a lead author of the 1995, 2001, and 2007 Scientific Assessment of Climate Change reports from the Intergovernmental Panel on Climate Change (IPCC), and shared the 2007 Nobel Peace Prize which went to the IPCC. He served from 1999 to 2006 on the Joint Scientific Committee of the World Climate Research Programme (WCRP), and he chaired the WCRP Observation and Assimilation Panel from 2004 to 2010. He is a fellow of the American Meteorological Society and the American Geophysical Union.



Kevin Trenberth

Image source: unknown

Donald M. Kerr is the Vice Chairman of the Mitre Corporation's Board of Trustees. He served as Deputy Director for Science and Technology at the CIA from 2001 to 2005. Before that he worked for the Department of Energy as the Deputy Assistant Secretary and Acting Assistant Secretary for Defense Programs and later for Energy Technology. He has published papers on ionospheric research. He currently serves on the advisory board of MIT's Lincoln Laboratory. He holds a bachelor's degree in electrical engineering, a master's degree in microwave electronics, and a doctorate in plasma physics and microwave electronics.



Donald Kerr

Image source: the MITRE Corporation

David Bader was the director of LLNL's Program for Climate Model Diagnosis and Intercomparison from 2003 to 2009. For six months he was a senior research adviser for climate change to the DOE Office of Science Director. He lead the DOE's Accelerated Climate Modeling for Energy project which involved NCAR. He returned to Livermore in 2011 where

he is currently the Climate Program leader. In 2015 he was elected a fellow of the American Meteorological Society.



David Bader

Image source: Lawrence Livermore National Labs

Alan Robock is a professor of climate science in the Department of Environmental Sciences at Rutgers University. He advocates for SRM geoengineering. He got his PhD in meteorology from the Massachusetts Institute of Technology. He is a fellow of the American Meteorological Society and the American Geophysical Union. He was a lead author of the 2013 Working Group 1 Fifth Assessment Report of the Intergovernmental Panel on Climate Change. He has also served on the Board of Trustees of the University Corporation for Atmospheric Research. As noted in chapter 1, during congressional testimony Dr. Robock suggested the use of retrofitted drone aircraft in order to deliver stratospheric particles.



Alan Robock

Ernest Moniz is the Secretary of Energy. That means he runs the Department of Energy. That means he should know about any DOE involvement in the New Manhattan Project. Many connections between the two have been outlined here.



Ernest Moniz

Image source: the Department of Energy

Cherry A. Murray is the director of the DOE's Office of Science. She previously served as the principal associate director for science and technology at Lawrence Livermore National Laboratory. She got her PhD from the Massachusetts Institute of Technology.



Cherry A. Murray

Image source: The Times-Picayune

Photo credit: Eliot Kamenitz

William Goldstein is the director of Lawrence Livermore National Laboratories.



William Goldstein

Image source: Lawrence Livermore National Labs

Jim Hurrell is the current director of NCAR. As one might expect, he has an extensive history of working in the climate sciences with many if not all of the top level organizations mentioned throughout this book.



Jim Hurrell

Image source: UCAR

Michael J. Thompson is the interim president of UCAR.



Michael J. Thompson
Image source: UCAR

Dr. Arati Prabhakar is the director of the Defense Advanced Research Projects Agency.



Dr. Arati Prabhakar
Image source: Wikimedia Commons

Stephen P. Welby is the head of DARPA's Department of Defense Research and Engineering Enterprise. This is the organization that took over the remaining portions of Operation Paperclip (ch 11).



Stephen P. Welby

Image source: the Department of Defense

Jens Stoltenberg is the secretary general of NATO. He was the chairman of the UN's High-Level Advisory Group on Climate Change Financing. He was also the UN Special Envoy on Climate Change.



Jens Stoltenberg

Image source: NATO

Thomas A. Kennedy is the chairman and CEO of Raytheon.



Thomas A. Kennedy
Image source: Raytheon

Richard R. Yuse is a vice president of the Raytheon Company and the president of their Space and Airborne Systems division.



Richard R. Yuse
Image source: Raytheon

Judith G. Garber is the head of the U.S. State Department's Bureau of Oceans and International Environmental and Scientific Affairs. They say they are working to advance U.S. foreign policy goals in such areas as climate change.

Leslie L. Armitage is a senior managing director of Relativity Capital. Before she joined Relativity, she was a partner and managing director with The Carlyle Group. At The Carlyle

Group, Ms. Armitage was a member of their aerospace and defense industry group. As noted in chapter 7, The Carlyle Group is one of the Bush family's two main family businesses; the other being the aforementioned Brown Brothers Harriman.

Joyce Johnson-Miller is another Relativity Capital executive with an interesting aspect to her resumé. Johnson-Miller is a 2007 Henry Crown Fellow at the Aspen institute. As noted by Coleman, the Aspen institute is one of the main vehicles of the supra-national mega-conglomerate dominating the Western world later defined by Vitali, Glattfelder, and Battiston as the Network of Global Corporate Control. As explained in the previous chapter, this is the group most probably responsible for the New Manhattan Project.

Richard Kinder is a founder and the Executive Chairman of the aforementioned Kinder Morgan. For many years, Richard Kinder managed Enron on a day-to-day basis. If there was anything inappropriate going on, such as inside knowledge of weather modification programs used to game financial markets (ch 7), he should have known about it. The company he went on to found (Kinder Morgan) was the recipient of Enron's only real assets; natural gas pipelines.



Richard Kinder
Image source: unknown

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Chapter 13

SOLUTIONS

As with every problem life throws our way, things can be done about chemtrails. We are not defenseless. Let this chapter answer the skeptics who say that chemtrails would never be sprayed because the people responsible for the programs would be exposed as well. Chemtrails *are* being sprayed. But people *can* exist on this planet and have little to no exposure. Having loads of money sure helps, but there are also less expensive options.

Location

Chemtrails are not being reported in all areas of the world. As noted earlier, they are mostly appearing in NATO countries. Excluding NATO countries leaves about 80% of the Earth's surface. Not all of that surface is land, but people can live on boats, too. Ultra-rich people have giant yachts upon which they live like kings.

Ultra-rich people also have fortified compounds and secret getaways in second and third world countries where chemtrails have rarely, if ever been seen. Although most of us would find it very difficult to move away from the Western world, the point is that it is possible; very difficult unless you are mega-rich, but not impossible.

Not only that, but anecdotal evidence seems to indicate that certain areas of the contiguous United States see less chemtrails than others. People say that Wyoming and surrounding regions tend to have less chemtrails than the coastal population centers.

Air purification

At home, if one closes all the windows and doors and runs an air purifier, the air gets a lot better very quickly.

Decent HEPA air purifiers are not very expensive. One can pick one up at Home Depot for less than \$100. Some air purifiers are incredibly expensive. Some work better than others. It takes some shopping around.

The really good air purifiers are called 'electrostatic' air purifiers. They can get particles much smaller than the best HEPA purifiers can. Yes, they can get nano-sized particles. Decently affordable electrostatic air purifiers are available on Amazon.com. Your author bought one there made by The Sharper Image and is quite pleased with it so far.

Portable air purifiers can be utilized in automobiles as well. Maybe some high-end automobiles even offer built-in HEPA cabin air filtration.

The best air purification systems are centralized like a central heating system. Centralized air purification systems are standard in buildings like hospitals and high-tech manufacturing facilities where the air needs to be free of dust, molds, pathogens, and the like.

It is possible to be in a home environment completely free of any airborne impurities. Air-tight houses exist. They are called 'passive houses.' There is a Wikipedia listing.

Now, if one were to couple a passive house with a centralized electrostatic air purification system, then the chemtrail jets could be dumping their megatons of toxic garbage overhead without one being exposed at all. Not everybody has enough money to achieve this, but again, it is possible.

Lastly, humidifiers probably help. Being that the materials dispersed by the airplanes are most probably hygroscopic in nature, replenishing the air with moisture is probably a good idea. Some air purifiers have humidifiers built-in.

Supplements

Certain supplements can help keep your body functioning properly. Dr. Russell Blaylock (whose work is featured in chapter 8) recommends turmeric. On Dr. Blaylock's recommendation, your author has been taking turmeric for years. I believe that it is turmeric which has restored my sense of smell.

Daily chemtrail exposure clogs one's olfactory nerves; the nerves that allow one to smell. Dr. Blaylock says that turmeric in one's blood takes away the aluminum particles clogging up the olfactory system. My experience has been consistent. A couple of years ago, I could not smell chemtrails. Now I can.

Dr. Edward Group (whose products are featured in the next section) sells something called The Original Crystal Salt Inhaler. It is a stout ceramic container about the size of a man's fist. It contains Himalayan pink salt rocks. The inhaler has a spout with an opening at the end. One places one's mouth at the opening on the spout and inhales. The air that is inhaled passes over the Himalayan salt and goes into one's lungs. Dr. Group says that this salty air is good for the lungs. I have had one of these inhalers for over a year now and I find it soothing. After use, I often experience better breathing.

Throat and nasal sprays can also help. I have found that, when they are dry, a nasal spray called Xlear makes my nasal passages feel a lot better. Xlear is not cheap, but it is available at local Whole Foods outlets. Another product I have found at Whole Foods is a throat spray called Singer's. It comes in a few different formulas. I like the Honey Lemon. I find that it makes me a little sleepy, but it does wonders for my throat. Dr. Group sells a spray which is supposed to help one's lungs, but I tried it and found that it irritated my throat. It might work for other people. I might try it again.

Detoxification

The aluminum, barium, and strontium (ch 5) which we ingest on a daily basis can be removed from your body. That process is known as detoxification; a.k.a. chelation. This is how we go about restoring our health. For what is needed to accomplish this, your author suggests one source.

One of the doctors mentioned in chapter 10 as being chemtrail aware is Dr. Edward Group. At his website GlobalHealingCenter.com, Dr. Group sells a full line of detox supplements. He will also provide you with specific instructions as to which supplements to use and how to use them.

One of his products is called Zeotrex and it is especially relevant to chemtrail detoxification because it is described as a, "chemical & toxic metal body cleanser." He also offers a chemical and toxic metal cleanse kit which includes Zeotrex, Detox Foot Pads, and instructions. The

products made available by Dr. Group should provide you with a full range of chemtrail detoxification options for all the bodily organs most affected by the lines in the sky.

As someone who has performed Dr. Group's liver and gallbladder cleanse, your author can attest to its effectiveness as the cleanse allowed me to pass over 100 liver and gallbladder stones. Chemtrails or no, cleansing your body of toxins is good for your health.

Microbes

When the enemy comes in like a flood, the Spirit of the Lord will lift up a standard against him. In this case, that standard is microbes. The larger area of study is known as 'bioremediation.'

Microbes are microscopic organisms as small as a single cell which are absolutely everywhere. Earth's most accommodating and most inhospitable environs are teeming with them. They are inside and all over our bodies. They live floating around in the stratosphere, in the deepest depths of the oceans, and even in outer space. They are the oldest forms of life on this planet. Only a tiny fraction of them have ever been officially discovered and categorized.

In the context of the chemtrail phenomenon, we concern ourselves with microbes because they can remediate the environmental damage done. Microbes can consume and neutralize the toxins which have been so unceremoniously dumped upon us and our world. This may very well happen naturally. As the chemtrail spray proliferates, so will the microbes which feast on it. This may also happen by acts of man. We can produce and disperse beneficial microbes in a concerted effort to remediate our environment. However it happens, the best case scenario is that the spraying be stopped so that beneficial microbes are given a chance to work their magic without being overwhelmed.

Chemtrail activist Allan Buckmann has been working with microbes. He recently wrote a short piece which is presented here:

“I do not profess to be a microbial expert, however in the microbial business for soil, water, and plant production I found out a lot about these little creatures that make up most of our lives, and without them cause deficiencies.”

“There are countless microbial species on this planet that fill every niche of the ecosystem. They are known to be present everywhere and within their collective capacity eat everything... including radioactive materials.”

“Some are known and used, but most (trillions) are still undiscovered for what they eat, defecate, or exchange. We are most familiar with those that cause disease, or are used for health, or agriculture. Those used for environmental treatments are all known beneficial species.”

“The human body carries billions of microbes and most people don't know it. We have specialists in our armpits (generally a determining factor for body odor), in our glands, eyes, intestines that aid digestion, and in every other area. We have evolved with microbial modifications in our systems and they are an important part of us.”

“They are also important for 'healthy' soil and agricultural or forestry production and are the difference between high value, colorful, and tasty fruits and vegetables like we can raise in our own gardens with good humus (rich with healthy microbes), and the bland crops grown with artificial chemicals. They are the difference between fertile and infertile soils. Mycorrhiza

downloaded from sprayedtodeath.com dontbetheirfool.com
species were found to stimulate root development and increase nutrient uptake, and that the roots also interacted with other plants for nutrient and genetic exchange. From such studies it was found that combinations of species could enhance overall production and that they work together best in social mixes.”

“So, yes I have been promoting the use of microbial products for bio-remediation of soil and plant deficiencies, and discovered that jet clouds and jet exhaust particles falling to the earth, and other particulates do not stop microbial actions as of this date.”

“As the past president of Microbe Tech, I became familiar with and had many applications using a line of microbial products formulated by Hugh Muir (deceased) and still manufactured here in the United States, and I still use these products. We have successfully treated soil, water, and plants with great results. This is in spite of any accumulation of metals in the environment so it is possible to counteract the effects of pollution.”

Investigations

It's all hands on deck. This is not a spectator sport. This is all of our lives that they are ruining. If we all do our parts, the chemtrails will end sooner and the people responsible will be brought to justice.

Collecting evidence is always good. Rainwater sample testing can add to the body of evidence. One can simply place a clean bowl, cup, or rain gauge at least 8 feet off the ground outside on a day when there is precipitation and visible chemtrails. Collect some rainwater and send it off to a local analytical testing laboratory. Ask the lab how much they need and what types of containers should be shipped. Analytical testing laboratories can be found all around the country. Soil and water testing is a common procedure. Frances Mangels uses Basic Laboratory in Redding, CA.

<http://www.basiclab.com/index.php>

Patrick Roddie uses McCampbell Analytical in Pittsburgh, CA.

<http://www.mccampbell.com/>

You can test for the presence of any element you wish. Labs charge by the element, so if you want them to test for everything, it will be quite expensive. If your rainwater sample test results show high levels of aluminum, barium, and/or strontium, then you have created more evidence! One can then post these findings on such websites as: GeoengineeringWatch.org, ChemtrailsProjectUK.com, and/or GlobalSkywatch.com.

Videotaping chemtrail sprayers can be a productive activity. Getting a good shot of an airplane at 35,000 feet is not the easiest thing in the world, but it does sometimes yield some good evidence. As mentioned in chapter 4, many of these videos depict all white, unmarked jumbo jets.

There are many thousands of videos posted online, but one YouTube video in particular is impossible to refute. Dane Wiggington at GeoengineeringWatch.org says he was sent this video titled "Undeniable Footage of Jet Aircraft Spraying." It depicts a chemtrail spraying aircraft with a constant dispersion coming from the wings and an *intermittent* dispersion coming from

the fuselage. This video proves beyond a shadow of a doubt that this is not a contrail and that this plane is spraying something. Unless there were operations publicly disclosed, then this is not part of an overt silver iodide cloud seeding operation. This is most probably part of the covert New Manhattan Project, caught on tape.

<https://www.youtube.com/watch?v=2q-BZxl-Zxk>

Although the famous researcher, writer, and activist Edward Griffin has suggested counting the chemtrail planes flying overhead, this type of activity does not seem to be very helpful. There are quite a few ways to keep track of airplanes overhead, but how useful and credible is this information?

Verifying the fact that planes are flying overhead and spraying us with stuff is very simple. All one needs to do is look up. Some commercial jets may be producing abnormally long trails and are identified by their electronic signals and publicly known flight routes and schedules, but they are not the prime offenders. Our focus should be on the dedicated chemtrail sprayers. These are the planes really dumping lots of stuff. But the dedicated chemtrail sprayers are not producing the usual electronic identifying information, therefore we can't identify these planes any better than a simple visual. That's as good as simply recognizing that there are planes flying overhead spraying stuff. We know that already.

Having a rough estimate as to how many planes are spraying chemtrails over a certain area is not very useful information. What are we going to do with it? If someday we get all the flight records of every New Manhattan Project chemtrail plane, then *that* is useful. Don't waste your time trying to count chemtrail spraying planes. Testing rainwater samples and videotaping chemtrail sprayers produces much more useful evidence.

We the people can help, but the government investigators we pay for are the real heavy hitters. They have powers to uncover evidence which your average citizen does not. The Government Accountability Office (GAO) is the right organization for the job. The GAO mission statement reads:

"The Government Accountability Office, the audit, evaluation, and investigative arm of Congress, exists to support Congress in meeting its constitutional responsibilities and to help improve the performance and accountability of the federal government for the American people. GAO examines the use of public funds; evaluates federal programs and policies; and provides analyses, recommendations, and other assistance to help Congress make informed oversight, policy, and funding decisions. GAO's commitment to good government is reflected in its core values of accountability, integrity, and reliability."

Being that it appears that public funds have been used to develop and probably implement the New Manhattan Project, we deserve a GAO investigation.

In fact, the GAO has already been taking a look at SRM geoengineering. Although their many reports on climate change indicate an adoption of the theory of man-made global warming, their few reports on climate mitigation measures such as SRM geoengineering express concern. Their 2010 report titled "Preliminary Observations on Geoengineering Science, Federal Efforts, and Governance Issues" was based on the congressional testimony of

the director of their Natural Resources and Environment division. The first sentence of the report states, "Substantial uncertainties remain on the efficacy and potential environmental impacts of proposed geoengineering approaches,..." The last sentence of the first paragraph reads, "Specifically, just as the effects of climate change in general are expected to vary by region, so would the effects of certain large-scale geoengineering efforts, therefore, potentially creating relative winners and losers and thus sowing the seeds of future conflict."

A congressional investigation is also in order. Although lots of credible evidence already exists, the proper progression here is probably first a GAO investigation, then a congressional investigation. It's best that our congress has rock solid evidence coming from professional government investigators upon which to proceed. It may take a little longer this way, but there's a better chance that it will be done properly.

Lawsuits

Let this book serve as a preliminary investigation into violations resulting in the largest class-action lawsuit in history.

Although the New Manhattan Project violates many laws, the strongest legal basis for suits of this type probably lies with the principle of informed consent. This is the idea that people don't get to just go ahead and ruin our health without our being informed as to what is happening and without our approval. The most salient example of this concept is the Nuremberg Code. The trials of Nazi doctors which resulted in the Nuremberg Code were conducted by the United States. Since this Code was established, it has served as a legal and ethical foundation for Human experimentations worldwide. The Nuremberg Code reads:

"The voluntary consent of the human subject is absolutely essential. This means that the person involved should have legal capacity to give consent; should be so situated as to be able to exercise free power of choice, without the intervention of any element of force, fraud, deceit, duress, overreaching, or other ulterior form of constraint or coercion; and should have sufficient knowledge and comprehension of the elements of the subject matter involved as to enable him to make an understanding and enlightened decision. This latter element requires that before the acceptance of an affirmative decision by the experimental subject there should be made known to him the nature, duration, and purpose of the experiment; the method and means by which it is to be conducted; all inconveniences and hazards reasonably to be expected; and the effects upon his health or person which may possibly come from his participation in the experiment."

Now does it sound like our rights have been violated under the Nuremberg Code?

A U.S. law called the Common Rule for the Protection of Human Subjects is based on the Nuremberg Code and is part of the the U.S. Code of Federal Regulations. It reads:

"Except as provided elsewhere in this policy, no investigator may involve a human being as a subject in research covered by this policy unless the investigator has obtained the legally effective informed consent of the subject or the subject's legally authorized representative. An investigator shall seek such consent only under circumstances that provide the prospective subject or the representative sufficient opportunity to consider whether or not to participate and

that minimize the possibility of coercion or undue influence. The information that is given to the subject or the representative shall be in language understandable to the subject or the representative. No informed consent, whether oral or written, may include any exculpatory language through which the subject or the representative is made to waive or appear to waive any of the subject's legal rights, or releases or appears to release the investigator, the sponsor, the institution or its agents from liability for negligence."

<http://www.hhs.gov/ohrp/regulations-and-policy/regulations/45-cfr-46/#46.116>

In fact, the usual suspects have signed onto it. That means: the Department of Energy, NASA, the Department of Defense, and the National Science Foundation. The CIA, by executive order, must comply with it.

<http://www.hhs.gov/ohrp/regulations-and-policy/regulations/common-rule/>

They think that because they classify their mass-murder as 'research' that they are legally immune. They aren't. What is presented here is the dominant legal doctrine; not their loophole as noted in chapter 9. All we have to do is positively identify the perpetrators and they are toast.

They should be frightened. The legal resistance is already building.

On April 9, 2014, GeoengineeringWatch.org reported that a \$60M lawsuit was filed against the Swedish government claiming that they failed to respond to 4,000 citizen requests for information about chemtrails. The article is titled "60 Million USD Claim Against Government of Sweden for Failure to Respond to Citizens Request for Information on Chemtrails."

<http://www.geoengineeringwatch.org/60-million-usd-claim-against-government-of-sweden-for-failure-to-respond-to-citizens-request-for-information-on-chemtrails/#more-16287>

Again on March 23, 2016 Dane Wiggington at GeoengineeringWatch.org reported that a Canadian class-action chemtrail lawsuit has been filed. The article is titled "Pushing Back Against Climate Engineering, Canadian Lawsuit Is Filed." The lawsuit, which was produced with the active participation of Mr. Wiggington, claims that geoengineering activities have caused significant economic and environmental damage. The defendant is the Queen of England. If she really is the chairperson of the Committee of 300 (as asserted by Coleman) and they have been responsible for this Project, then isn't that hitting the nail on the head?

<http://www.geoengineeringwatch.org/pushing-back-against-climate-engineering-canadian-lawsuit-filed/>

Mr. Wiggington is (as one might be able to discern from the material in this book) at the forefront of the battle against geoengineering. To keep up the legal fights, he recommends donating to a 501c3 tax-exempt non-profit organization called the Stop Geoengineering Legal Defense Fund. They have a website where one may make a tax deductible donation.

Legislation

We can petition our government to write new laws in an effort to expose and stop chemtrails. It's not something that gets done overnight. But, like my grandmother used to say, nothing worthwhile is easy. Many milestones have already been achieved.

U.S. congressman Dennis Kucinich used the word 'chemtrails' in proposed national legislation. The word appeared in the Space Preservation Act of 2001. The National legislation did not pass, but on September 10, 2002 the City Council of Berkeley, California, in support of Congressman Kucinich's Space Preservation Act, enacted Resolution #61744 declaring the space 60 kilometers and above Berkeley as a space-based weapons-free zone. On September 14th, Congressman Kucinich was officially presented the resolution by Council member Dona Spring, who initiated the resolution before 700 people in Wheeler Auditorium. The audience gave Kucinich and Spring a standing ovation.

On May 19, 2015 the City of Richmond, CA adopted a similar resolution in support of the Space Preservation Act and the Space Preservation Treaty to symbolically ban 'space-based weapons.'

The Rhode Island House of Representatives is currently considering a bill titled "The Climate Geoengineering Act of 2016." If passed, this bill will require permission for any SRM geoengineering over the state of Rhode Island and provide penalties for violations. Along with links to the bill itself, GeoengineeringWatch.org provided all the latest information in a Feb. 29, 2016 article titled "Anti-Geoengineering Legislation in Rhode Island Is Still Alive."

<http://www.geoengineeringwatch.org/anti-geoengineering-legislation-in-rhode-island-still-alive/>

As we can see from this brief history, only symbolic anti-geoengineering legislation has yet passed anywhere. We should wish the Rhode Island petitioners all the best, but maybe it's not time yet for a resolution with teeth. Maybe it's time for another symbolic resolution, but this time with more bite.

I offer you an amalgamation of Berkeley's "Resolution in Support of the Space Preservation Act," Maui's proposed "Clean Sky Ordinance" and my contributions gleaned from working with local activists and governments. I ask here and now that people go about getting a local council member to sponsor this:

A generic proposed resolution to declare your town or city a 'geoengineering/weather/climate modification-free zone'

BACKGROUND:

United States patent #4,686,605 "Method and Apparatus for Altering a Region in the Earth's Atmosphere, Ionosphere and/or Magnetosphere" (1987) describes how electromagnetic energy and dispersed particles can be used to modify the weather.

In 1991, U.S. patent #5,003,186 "Stratospheric Welsbach Seeding for Reduction of Global Warming" speaks to the dispersion of aluminum oxide as a way to modify the weather.

The 1996 U.S. Air Force research paper “Weather as a Force Multiplier: Owning the Weather in 2025” explains how spraying particles into the atmosphere with airplanes while utilizing ground and space based electromagnetic weaponry for the purpose of weather modification is good and how our military might go about doing this both domestically and internationally.

In the mid-nineties, Lawrence Livermore National Laboratories scientists Edward Teller, Lowell Wood and Roderick Hyde wrote multiple papers calling for small aluminum particles to be 'injected' into our atmosphere in order to 'scatter' sunlight.

The Council on Foreign Relations has issued many publications about geoengineering. Their 2008 paper entitled “Unilateral Geoengineering: Non-technical Briefing Notes for a Workshop at the Council on Foreign Relations” proposes spraying aluminum oxide dust into the stratosphere.

The U.K. Royal Society published a 2009 report titled “Geoengineering the Climate: Science, Governance and Uncertainty” in which they propose geoengineering and state, "A wide range of types of particles could be released into the stratosphere with the objective of scattering sunlight back to space."

During 2009 and 2010 Congressional hearings called “Geoengineering: Parts I, II, and III,” testifying geoengineers proposed spraying substances from aircraft many, many times.

Aurora Flight Sciences published a 2010 cost analysis study prepared under contract to the University of Calgary entitled “Geoengineering Cost Analysis” which states, "The goal of this study is to use engineering design and cost analysis to determine the feasibility and cost of a delivering material to the stratosphere for solar radiation management (SRM)." [sic] In this report, the authors write about utilizing different kinds of aircraft, including blimps, to spray particles into the atmosphere. Of readily available solutions, it was found that retrofitting old tanker jet airplanes would be the most cost effective choice.

In October of 2010, the United States House of Representatives Science and Technology Committee issued a report called “Engineering the Climate: Research Needs and Strategies for International Coordination.” On the final page, this report advocates, "It is the opinion of the Chair, in agreement with U.K. Committee, that further collaborative work between national legislatures on topics with international reach, such as climate engineering, should be pursued. The Chair also agrees that there are a range of measures that could be taken to streamline the process and enhance the effectiveness of collaboration."

The United Nations Educational Scientific and Cultural Organization (UNESCO) issued a report in November of 2011 titled “Geoengineering the Climate: Research Questions and Policy Implications.” It proposes geoengineering and features a full color illustration of a jumbo jet spraying stratospheric aerosols.

A RESOLUTION OF *your council* TO DECLARE *your town/city* A 'GEOENGINEERING/WEATHER/CLIMATE MODIFICATION-FREE ZONE'

WHEREAS, the people of your town/city recognize that geoengineering, weather modification, and climate modification programs and activities are either known to employ or propose employing aircraft and other means to disperse substances in order to affect the weather and/or climate; and

WHEREAS, the people of your town/city have the right to be informed by full disclosure through an Environmental Impact Statement of the health and environmental implications caused by any geoengineering, weather modification, and/or climate modification program or activity; and

WHEREAS, any geoengineering, weather modification, and/or climate modification program or experimental program or activity with potentially adverse health and environmental implications for the people of your town/city needs the informed consent of the people of your town/city; and

NOW, THEREFORE, BE IT HEREBY RESOLVED:

I. That it is the will of your council to declare your town/city a 'Geoengineering/Weather/Climate Modification-Free Zone'; and

II. That your council hereby declares that the space above your town/city is a 'Geoengineering/Weather/Climate Modification-Free Zone'; and

III. That an official committee of your town/city be convened for the purpose of producing a report to your council and the people of your town/city in order to determine if your town/city and the residents of your town/city have been exposed to substances associated with geoengineering, weather modification, and/or climate modification activities; and

IV. That this resolution of your town/city is hereby recommended to be adopted by all Municipalities in the United States of America and worldwide.

If you decide to accept this mission, please learn from my mistakes. Don't just go to your local council meeting and float the idea during the public comment section. It's easy for them to dismiss somebody that way and they might not know what you're talking about.

One does this by firstly contacting as many other interested community members as possible. Standing on a street corner with a petition and a sign would be effective. Form a group with these people and give yourselves a name. Making a website or a Facebook page doesn't hurt. Then gather your best information (copies of this book might fit the bill) and send it to your city council and mayor by email AND snail mail. Follow up with phone calls, letting them know

that your group wants them to sponsor the proposed resolution.

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Hopefully by the time you address the council, you will have a council member or the mayor ready, willing, and able to officially sponsor your resolution. If your representatives don't want to sponsor it right now, ask them to form a sub-committee to study the issue before they do. When your sub-committee completes your report, then you can ask for the mayor or a council member for sponsorship. Once your proposed resolution is officially sponsored, your council will vote on it.

Free energy

As mentioned in chapter 9, free energy technologies have been around for over 100 years. They go back to Nikola Tesla. There is not another single issue more important to the liberty of Humanity or more indicative of our culturally inverted society.

There are literally scores of examples. It doesn't take much web searching to find mind-blowing information. In the documentary "Thrive," the best encapsulation of these technologies known to the author is presented. "Thrive" is available for free in its entirety on YouTube. It's only got about 11 million views.

<https://www.youtube.com/watch?v=lEV5AFFcZ-s>

The section on free energy begins at about 34 minutes and runs to about the 43 minute mark.

While the geniuses at Lawrence Livermore Labs and CERN spend billions of dollars valiantly searching for the holy grail of cold fusion, a 13 year old kid recently made a free energy device for under \$15. He made it out of a coffee can, some wire, two coils, and a spoon. He used it to light up a string of LED lights wrapped around his brother. You can read all about it in a May 18, 2016 article which appeared on the website WakingTimes.com titled "13-Year-Old Invents Tesla Inspired Free Energy Device for Under \$15."

<http://www.wakingtimes.com/2016/05/18/13-year-old-invents-tesla-inspired-free-energy-device-for-under-15/>

Free energy is particularly important to the topic of this book because the reason given for spraying toxic chemicals out of aircraft is that man's carbon emissions (such as those emitted from internal combustion engines) is causing dangerous climate anomalies and that SRM geoengineering can avert a man-made climate disaster. If we have no more need for carbon based fuels like oil and gas and just use clean and free energy, then there is no more reason to spray stuff out of airplanes. You can bet that if free energy technologies are unleashed, though, geoengineers will start selling their activities as a necessary global weather modification project. But by that point, their agenda will be irreparably damaged.

Aside from derailing the chemtrail agenda, free energy would be the single most transformative development in Human history. It would set Humanity and our planet free. The problem is that the most powerful people in the world don't want Humanity and the Earth to be free. They would rather have us suffer under their Draconian New Manhattan Project. Are we going to allow this to continue?

"Preliminary Observations on Geoengineering Science, Federal Efforts, and Governance Issues" a report by the Government Accountability Office, 2010

"60 Million USD Claim Against Government of Sweden for Failure to Respond to Citizens Request for Information on Chemtrails" an article by Dane Wiggington, published by GeoengineeringWatch.org, April 9, 2014

"Pushing Back Against Climate Engineering, Canadian Lawsuit Is Filed" an article by Dane Wiggington, published by GeoengineeringWatch.org, March 23, 2016

"Anti-Geoengineering Legislation in Rhode Island Is Still Alive" an article by Dane Wiggington, published by GeoengineeringWatch.org, Feb. 29, 2016

"Thrive" a documentary video by Foster and Kimberly Gamble, 2011

"13-Year-Old Invents Tesla Inspired Free Energy Device for Under \$15" an article by Terence Newton, published by WakingTimes.com, May 18, 2016

website

globalhealingcenter.com

AFTERWORD

So now a great conspiracy has been exposed. We can celebrate when we are sure that the spraying has stopped. Although the research and revelations will continue for many years, let this book provide a fresh starting point from which we can climb to new knowledge. Undoubtedly, this work will someday appear as quite primitive.

Let it also be known that the chemtrail conspiracy is but one of a seemingly endless number. When one understands that devils are the gods of this world, one may also understand that conspiracies are the very fabric of our society. So much so that just about every belief that Humanity holds dear is a falsehood. When one understands that all the religions of the world are a fraud, then one begins to see the light. Only against a backdrop such as this could the New Manhattan Project exist. The truth is currently far too unacceptable to the overwhelmingly vast majority of the public to be widely understood. In the face of all this, the chemtrail conspiracy is quite easy to understand.

The only truth is given to us by the Creator. All we can know is that there is a force that creates life; and even that is questionable. Man cannot fully understand or quantify God. We cannot give it a name. We cannot write a book that describes it. We can only grasp small bits of truth that the Creator allows us.

The best way we have to understand our world and our existence is science. Science is the art of knowledge and understanding.

What is fundamentally so wrong about the New Manhattan Project (aside from the mass murder and environmental devastation) is that it takes our best shot at giving us a real understanding and turns it into a tool of our enslavement. When the greatest scientific endeavor in Human history is used as a large part (maybe the largest) of an authoritarian world order, we are shunted off from our Creator. We have been kept from our true selves and our true God and our true destiny on a scale that boggles the mind. And that's exactly where this establishment wants us; in a perpetual state of confusion, weak, impotent, and easily dominated.

We can only hope that Humanity awakens from this nightmare and that we reconnect with our true selves. Let this book be a small part of that process. Thank you.