

## Chemtrail Global Warming Article

[http://www.lightwatcher.com/chemtrails/smoking\\_gun.html](http://www.lightwatcher.com/chemtrails/smoking_gun.html)

### Feature Story - [The Chemtrail Smoking Gun - Proof of Global Geoengineering Projects](#)

illustration - by Bruce Conway / revised 6.20.03 / Lightwatcher Publishing

**forward:** For the past few years investigators and researchers have been searching for hard evidence on the elusive phenomena of chemtrail spraying. If one searches GoogleNews for articles on chemtrails in (with 4500 periodicals represented) not one article will be found. There is simply no coverage on this topic in the mainstream media.

Imagine our surprise when we discovered extensive proof of government involvement, funding, sponsorship, multidisciplinary research, policy making and implementation of global atmospheric modification under the classification of 'Geoengineering.' This is the chemtrail smoking gun we have been looking for.

Authorized by Congress and sponsored by the National Academy of Sciences, a monumental and in-depth study on global warming and possible corrective measures (mitigations) was undertaken in the early 1990s. Represented were senior researchers, faculty, theoreticians, atmospheric scientists, department heads and CEO's from a multitude of prestigious institutions. The Smithsonian, Harvard, General Motors, Cambridge, MIT, Yale, World Resources Institute, National Center for Atmospheric Research, the Secretary General of the United Nations, Oxford, Brookings Institution, Columbia University, Oak Ridge National Laboratory, Carnegie-Mellon University, Princeton University, Brown University, Lawrence Livermore Laboratory, and many more. This colossal study recalls the scope, expense and secrecy of the Manhattan Project, yet the goals and eventual impacts of it are far greater.



### The Chemtrail Smoking Gun

Proof of global atmospheric geoengineering  
by: Bruce Conway

"There are more things in heaven and Earth, Horatio, than are dreamt in your philosophy." - Shakespeare

Five years ago I founded the Chemtrails Hall of Shame web site to document and investigate the elusive Chemtrail spraying operations in the skies above my home in the Pacific NW. The site can be found at: <http://www.lightwatcher.com>

During this time I have had the opportunity to work with and befriend several of the luminaries within this field of investigation: Diane Harvey, Brian Holmes and a very special investigator who chooses to remain anonymous in this article. Each of these individuals has contributed greatly to the subject, keeping this topic alive within the alternative media. These chemtrail spraying programs, which are apparently being conducted on a worldwide basis, are evident to anyone who has the desire to look up and perceive the evidence. Yet, definitive proof has remained elusive.

Total denial by governmental authorities, the shunning of this topic by mainstream media, the systematic discreditation of researchers, ongoing coverups by the scientific establishment, and a coordinated systematic policy of disinformation has relegated this topic to the realm of fantasy and paranoid delusion. Regardless, it continues to go on above our heads, and has now grown to become the largest coordinated global engineering project in the history of our species. How can I make such a preposterous claim?

Brian Holmes of [www.holmestead.ca](http://www.holmestead.ca) has investigated these eco-crimes for the past several years. Because of his efforts, many within Canada and on the net have become aware of the ongoing spraying operations. Like

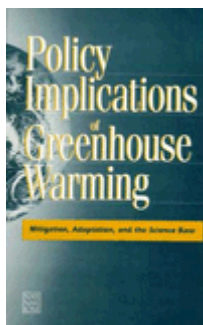
other serious investigators who have studied this phenomena, Brian's work has been maligned, and there are ongoing attempts to discredit him and his sources.

Some months ago, a Chemtrail insider that Brian nicknamed 'Deep Shield' came forward with specific and detailed information about this mysterious program, corresponding with him via e-mail. A transcript of the communications with Deep Shield and the Shield Project can be read online at: <http://www.holmestead.ca/chemtrails/shieldproject.html>. For those of us who have studied chemtrails carefully, the revealing dialog rang of the truth.

Since then we have been able to study, and verify a number of Deep Shield's primary claims. The anonymous insider gave Brian's readers some valuable clues to follow if they wished to investigate deeper into the history and hard science of chemtrails. A primary clue was to investigate the term 'geoengineering.'

One investigator took the clues provided by 'Deep Shield' and dug in. She eventually found an N.A.S. study on Geoengineering and the Mitigation of Global Warming. This study is still available online and is also available in hardcover. This massive document validates the insider information provided by Deep Shield, and has led to an additional gold mine of evidence.

This massive research study is entitled: *Policy Implications of Greenhouse Warming: Mitigation, Adaptation, and the Science Base - Panel on Policy Implications of Greenhouse Warming*, sponsored by the National Academy of Sciences, National Academy of Engineering, and the Institute of Medicine. The results were presented in 1992 and published in book form in 2000 by the National Academy Press. This 994 page study is the textbook on greenhouse gasses, global warming, policy decisions and mitigation's (corrective measures). Included within is the hard science many chemtrails researchers have been searching for: the scientists, agencies, institutions and corporations involved, cost factors, chemical formula, mathematical modeling, delivery methods, policies, recruiting of foreign governments, acquisition of materials, and the manufacturing of aerosol compounds, ect.



This entire volume can presently be read online at: <http://books.nap.edu/books/0309043867/html/index.html>. Keep in mind that this study is only the tip of the iceberg. Literally hundreds of papers on related topics have been published in scientific journals. We don't expect this featured study to remain online for long once the cat is out of the bag. So do check it out soon.

The full involvement of foremost government agencies, research firms, universities and private corporations are detailed in this global 'geoengineering' study. **Keep in mind that this was approved by and funded by Congress.** We expect that this documentation will bolster the beliefs of most hardcore chemtrail believers. It will also continue to undermine what little trust still remains in our leaders and their institutions. This documentation proves that they have lied repeatedly about their involvement and the existence of chemtrail spraying programs.

It also appears that we 'Chemtrail' investigators have been chasing our tails, being intentionally discredited, maligned, and fed disinformation to keep the actual truth just below the levels of media perception. The real story has been taking place in broad daylight, safely concealed under the scientific umbrella of 'Geoengineering and intentional climate change.'

Chemtrails are just one of the 'mitigations' proposed to Geoengineering our planet. Once we began sifting through the numerous studies, experiments and papers written on intentional climate change, we found a wealth of supporting evidence of well funded global atmospheric modification programs. One such paper is **Geoengineering: A Climate Change Manhattan Project** <http://www.metatronics.net/lit/geo2.html#two> (Jay Michaelson, published in the Stanford Environmental Law Journal, January, 1998)

The author makes a very convincing case for the pressing need of undertaking geoengineering projects. He argues that regulation, environmental laws and other stumbling blocks limit our ability to directly address the dangers that threaten us directly and immediately. He writes: "The projected insufficiency of Kyoto's emission reduction regime, and the problems of absence, cost, and incentives discussed in part II, cry out for an alternative to our present state of climate change policy myopia."

"Geoengineering--intentional, human-directed manipulation of the Earth's climatic systems--may be such an alternative. This part proposes that, unlike a regulatory "Marshall Plan" of costly emissions reductions, technology subsidies, and other mitigation measures, a non-regulatory "Manhattan Project" geared toward developing feasible geoengineering remedies for climate change can meaningfully close the gaps in global warming and avert many of its most dire consequences."

"In some ways, this phase has already begun, as geoengineering has moved from the pages of science fiction to respectable scientific and policy journals. [FN127] One of the most encouraging proposals today focuses on the creation of vast carbon sinks by artificially stimulating phytoplankton growth with iron "fertilizer" in parts of the Earth's oceans. [FN128] Another proposal suggests creating miniature, \*106 artificial "Mount Pinatubos" by allowing airplanes to release dust particles into the upper atmosphere, simulating the greenhouse-arresting eruption of Mount Pinatubo in 1991. [FN129]" pp. 105-106, *Geoengineering: A Climate Change Manhattan Project.*"

In *Policy Implications of Greenhouse Warming: Mitigation, Adaptation, and the Science Bases* conclusion, the N.A.S. found that the **most effective global warming mitigation turned out to be the spraying of reflective aerosol compounds into the atmosphere utilizing commercial, military and private aircraft.** This preferred mitigation method is designed to create a global atmospheric shield which would increase the planet's albedo (reflectivity) using aerosol compounds of aluminum and barium oxides, and to introduce ozone generating chemicals into the atmosphere.

This method was the most cost effective, and yielded the largest benefits. It could also be conducted covertly to avoid the burdens of environmental protection and regulatory entanglements.

It is evident to anyone who cares to look up, that this mitigation is now being conducted worldwide and on a daily basis. It is certain that our leaders have already embarked on an immense geoengineering project; one in which they expect millions of human fatalities, and consider these to be acceptable losses.

This landmark study; the widespread experimentation and published papers of atmospheric theorists and scientists, combined with the visual evidence that atmospheric mitigations are being conducted in our skies, clearly shows that Chemtrail spraying has become a preferred solution to global warming mitigation.

The evidence is all around us. For example; this past week Boeing Aircraft received an enormous initial order from the Pentagon for 100 Boeing 767 tanker planes, to begin replacing the Air Force's aging fleet of KC-135s, the most commonly seen chemtrail spray plane. The final order will exceed 500 planes. There has been no mention of the usage of these aircraft.

Geoengineering is being carried on Earth on a staggering scale, without the impediment of environmental laws or regulatory constraints. This grand experiment is being conducted in full view, while being concealed in plain sight.

The following excerpts detail the preferred geoengineering Mitigations for reducing greenhouse gasses, global warming and radiation from space. Quoted from: ***Policy Implications of Greenhouse Warming: Mitigation, Adaptation, and the Science Base - Panel on Policy Implications of Greenhouse Warming***

*Policy Implications of Greenhouse Warming: Mitigation, Adaptation, and the Science Base (1992)*  
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<b>TABLE 6.1 (continued)</b>		
<b>Sunlight Screening</b>		
<i>Space Mirrors</i>	Place 50,000 100-km <sup>2</sup> mirrors in the earth's orbit to reflect incoming sunlight.	
<i>Stratospheric Dust<sup>c</sup></i>	Use guns or balloons to maintain a dust cloud in the stratosphere to increase the sunlight reflection.	
<i>Stratospheric Bubbles</i>	Place billions of aluminized, hydrogen-filled balloons in the stratosphere to provide a reflective screen.	
<i>Low Stratospheric Dust<sup>c</sup></i>	Use aircraft to maintain a cloud of dust in the low stratosphere to reflect sunlight.	
<i>Low Stratospheric Soot<sup>c</sup></i>	Decrease efficiency of burning in engines of aircraft flying in the low stratosphere to maintain a thin cloud of soot to intercept sunlight.	
<i>Cloud Stimulation<sup>c</sup></i>	Burn sulfur in ships or power plants to form sulfate aerosol in order to stimulate additional low marine clouds to reflect sunlight.	
<b>Ocean Biomass Stimulation</b>	Place iron in the oceans to stimulate generation of CO <sub>2</sub> -absorbing phytoplankton.	
<b>Atmospheric CFC Removal</b>	Use lasers to break up CFCs in the atmosphere.	

**Evaluating Geoengineering Options**

"Several geoengineering options appear to have considerable potential for offsetting global warming and are much less expensive than other options being considered. Because these options have the potential to affect the radiative forcing of the planet, because some of them cause or alter a variety of chemical reactions in the atmosphere, and because the climate system is poorly understood, such options must be considered extremely carefully. These options might be needed if greenhouse warming occurs, climate sensitivity is at

the high end of the range considered in this report, and other efforts to restrain greenhouse gas emissions fail."

"The first set of geoengineering options screens incoming solar radiation with dust or soot in orbit about the earth or in the atmosphere. The second set changes cloud abundance by increasing cloud condensation nuclei through carefully controlled emissions of particulate matter."

"The stratospheric particle options should be pursued only under extreme conditions or if additional research and development removes the concern about these problems. The cloud stimulation option should be examined further and could be pursued if concerns about acid rain could be managed through the choice of materials for cloud condensation nuclei or by careful management of the system. The third class increases ocean absorption of CO<sub>2</sub> through stimulating growth of biological organisms."

### Screening Out Some Sunlight

"Another option for mitigating a global warming would be to try to control the global radiation balance by limiting the amount of incoming radiation from the sun. This could be done by increasing the reflectivity of the earth, i.e., the albedo. Proposals for increasing the whiteness of roofs and surface features would have some effect, but only a fraction of incident solar radiation reaches the earth's surface and a purposeful change in albedo would have more impact if done high in the atmosphere. According to Ramanathan (1988), an increase in planetary albedo of just 0.5 percent is sufficient to halve the effect of a CO<sub>2</sub> doubling. Placing a screen in the atmosphere or low earth orbit could take several forms: it could involve changing the quantity or character of cloud cover, it could take the form of a continuous sheet, or it could be divided into many "mirrors" or a cloud of dust. Preliminary characterizations of some of the possibilities that might be considered are provided below."

Policy Implications of Greenhouse Warming: Mitigation, Adaptation, and the Science Base (1992)  
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#### MITIGATION

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**TABLE 6.3** Cost-Effectiveness Ordering of Geoengineering Mitigation Options

Mitigation Option	Net Implementation Cost	Potential Emission Mitigation (t CO <sub>2</sub> equivalent per year)
Low stratospheric soot	Low	8 billion to 25 billion
Low stratospheric dust, aircraft delivery	Low	8 billion to 80 billion
Stratospheric dust (guns or balloon lift)	Low	4 trillion or amount desired
Cloud stimulated by provision of cloud condensation nuclei	Low	4 trillion or amount desired
Stimulation of ocean biomass with iron	Low to moderate	7 billion or amount desired
Stratospheric bubbles (multiple balloons)	Low to moderate	4 trillion or amount desired
Space mirrors	Low to moderate	4 trillion or amount desired
Atmospheric CFC removal	Unknown	Unknown

**Stratospheric Dust**  
 "Although the space dust option does not appear to be sensible, computations of the residence times of 0.2- $\mu$ m dust above 20 to 40 km are of the order of 1 to 3 years (Hunten, 1975). It seems to be generally accepted that volcanic aerosols remain in the stratosphere for several years (Kellogg and Schneider, 1974; Ramaswamy and Kiehl, 1985). A screen could be created in the stratosphere by adding more dust to the natural stratospheric dust to increase its net reflection of sunlight."

### Mass Estimates

"Ramaswamy and Kiehl (1985) estimate that an aerosol dust loading of 0.2 g/m<sup>2</sup> for dust with a radius of about 0.26  $\mu$ m increases the planetary albedo by 12 percent, resulting in a 15 percent decrease of solar flux reaching the surface. Since an approximately 1 percent change in solar flux is required, and their Figures 13 and 15 suggest that, at these loadings, the dust effects may reasonably be extrapolated downward linearly, estimates will be made by using a dust loading of 0.02 g/m<sup>2</sup> with a particle radius of 0.26  $\mu$ m."

"The dust in Ramaswamy and Kiehl's model is distributed between 10 and 30 km in the stratosphere, uniformly over the globe. The actual effect on radiative forcing of a global distribution of additional dust would be somewhat greater at low than at high latitudes because more of the sunlight is effective there for geometric reasons. This would decrease slightly the equator-to-pole temperature gradients and might have some effect on weather intensity. Presumably, this effect can also be studied with global climate models."

### Delivery Scenarios

"Aircraft Exhaust Penner et al. (1984) suggested that emissions of 1 percent of the fuel mass of the commercial aviation fleet as particulates, between 40,000- and 100,000-foot (12- to 30-km) altitude for a 10-year period, would change the planetary albedo sufficiently to neutralize the effects of an equivalent doubling of CO<sub>2</sub>. They proposed that retuning the engine combustion systems to burn rich during the high-altitude portion of commercial flights could be done with negligible efficiency loss. Using Reck's estimates of extinction coefficients for particulates (Reck, 1979a, 1984), they estimated a requirement of about 1.168  $\times$  10<sup>10</sup> kg of particulates, compared with the panel's estimate of 10<sup>10</sup> kg, based upon

Ramaswamy and Kiehl (1985). They then estimated that if 1 percent of the fuel of aircraft flying above 30,000 feet is emitted as soot, over a 10-year period the required mass of particulate material would be emitted. However, current commercial aircraft fleets seldom operate above 40,000 feet (12 km), and the lifetimes of particles at the operating altitudes will be much shorter than 10 years."

"An alternate possibility is simply to lease commercial aircraft to carry dust to their maximum flight altitude, where they would distribute it. To make a cost estimate, a simple assumption is made that the same amount of dust assumed above for the stratosphere would work for the tropopause (the boundary between the troposphere and the stratosphere). The results can be scaled for other amounts. The comments made above about the possible effect of dust on stratospheric ozone apply as well to ozone in the low stratosphere, but not in the troposphere. The altitude of the tropopause varies with latitude and season of the year."

"In 1987, domestic airlines flew 4,339 million ton-miles of freight and express, for a total express and freight operating revenue of \$4,904 million (U.S. Bureau of the Census, 1988). This gives a cost of slightly more than \$1 per ton-mile for freight. If a dust distribution mission requires the equivalent of a 500-mile flight (about 1.5 hours), the delivery cost for dust is \$500/t, and ignoring the difference between English and metric tons, a cost of \$0.50/kg of dust. If 1010 kg must be delivered each 83 days, (provided dust falls out at the same rate as soot), 5 times more than the 1987 total ton-miles will be required."

"The question of whether dedicated aircraft could fly longer distances at the same effective rate should be investigated."

### **Changing Cloud Abundance - The Approach**

"Independent studies estimated that an approximately 4 percent increase in the coverage of marine stratocumulus clouds would be sufficient to offset CO<sub>2</sub> doubling (Reck, 1978; Randall et al., 1984). Albrecht (1989) suggests that the average low-cloud reflectivity could be increased if the abundance of cloud condensation nuclei (CCN) increased due to emissions of SO<sub>2</sub>. It is proposed that CCN emissions should be released over the oceans, that the release should produce an increase in the stratocumulus cloud albedo only, and that the clouds should remain at the same latitudes over the ocean where the surface albedo is relatively constant and small."

"Albrecht (1989) estimates that a roughly 30 percent increase in CCN would be necessary to increase the fractional cloudiness or albedo of marine stratocumulus clouds by 4 percent. Albrecht's idealized stratocumulus cloud, which he argues is typical, has a thickness of 375 m, a drizzle rate of 1 mm per day, and a mean droplet radius of 100 nm, and he assumes that each droplet is formed by the coalescence of 1000 smaller droplets. The rate at which the CCN are depleted by his model is 1000/cm<sup>3</sup> per day. Consequently, about 300/cm<sup>3</sup> per day (30 percent of 1000) of additional CCN would have to be discharged per day at the base of the cloud to maintain a 4 percent increase in cloudiness. This assumes that the perturbed atmosphere would also remain sufficiently close to saturation in the vicinity of the CCN that additional cloud cover would be formed every time the number of CCN increased."

### **Mass Estimates of Cloud Condensation Nuclei**

"With Albrecht's assumption in mind that cloudiness in a typical ocean region is limited by the small number of CCN, we now extrapolate to the entire globe. On the average, 31.2 percent of the globe is covered by marine stratiform clouds (Charlson et al., 1987). If no high-level clouds are present, the number  $n$  of CCN that need to be added per day is  $1.8 \times 10^{25}$  CCN/day. The mass of a CCN is equal to  $\frac{4}{3}\pi r^3 \rho$  density, and it is assumed that the mean radius  $r$  is equal to 0.07  $\mu$ m (Charlson et al., 1987). Because the density of sulfuric acid (H<sub>2</sub>SO<sub>4</sub>) is 1.841 g/cm<sup>3</sup>, the CCN mass is  $2.7 \times 10^{-15}$  g. The total weight of H<sub>2</sub>SO<sub>4</sub> to be added per day is  $31 \times 10^3$  t per day SO<sub>2</sub> if all SO<sub>2</sub> is converted to H<sub>2</sub>SO<sub>4</sub> CCN. To put this number in perspective, a medium-sized coal-fired U.S. power plant emits about this much SO<sub>2</sub> in a year. Consequently, the equivalent emissions of 365 U.S. coal-burning power plants, distributed homogeneously, would be needed to produce sufficient CCN."

"Cloud stimulation by provision of cloud condensation nuclei appears to be a feasible and low-cost option capable of being used to mitigate any quantity of CO<sub>2</sub> equivalent per year. Details of the cloud physics, verification of the amount of CCN to be added for a particular degree of mitigation, and the possible acid rain or other effects of adding CCN over the oceans need to be investigated before such system is put to use. Once a decision has been made, the system could be mobilized and begin to operate in a year or so, and mitigation effects would be immediate. If the system were stopped, the mitigation effect would presumably cease very rapidly, within days or weeks, as extra CCN were removed by rain and drizzle."

"Several schemes depend on the effect of additional dust compounds in the stratosphere or very low stratosphere screening out sunlight. Such dust might be delivered to the stratosphere by various means, including being fired with large rifles or rockets or being lifted by hydrogen or hot-air balloons. These possibilities appear feasible, economical, and capable of mitigating the effect of as much CO<sub>2</sub> equivalent per year as we care to pay for. (Lifting dust, or soot, to the tropopause or the low stratosphere with aircraft may be limited, at low cost, to the mitigation of 8 to 80 Gt CO<sub>2</sub> equivalent per year.) Such systems could probably be put into full effect within a year or two of a decision to do so, and mitigation effects would begin immediately. Because dust falls out naturally, if the delivery of dust were stopped, mitigation effects would cease within about 6 months for dust (or soot) delivered to the tropopause and within a couple of years for dust delivered to the midstratosphere."

"Sunlight screening systems would not have to be put into practice until shortly before they were needed for mitigation, although research to understand their effects, as well as design and engineering work, should be done now so that it will be known whether these technologies are available if wanted."

"Perhaps one of the surprises of this analysis is the relatively low costs at which some of the geoengineering options might be implemented."

**(end of excerpts)**

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**Following is a partial list of those involved in this monumental study:**

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### Papers of special interest to Chemtrail Investigators

Jay Michaelson 1998 *Geoengineering: A climate change Manhattan Project* - Stanford Environmental Law Journal January - <http://www.metatronics.net/lit/geo2.html#two>

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# Chemtrails

## - spraying in our sky



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**"Everyone talks about the weather,  
but nobody does anything about it."**



**Tuesday, 28 September 2004: If you have visited this page before you will know of the story told by the scientist I named "Deep Shield".**

**I received word early today that "Deep Shield" had committed suicide late last Sunday afternoon at his home in the Emeryville/Berkeley/Oakland area of California.**

**The method used was to run a hose from his car's exhaust pipe into the closed car in his garage. His wife found his body and she says that there was no suicide note.**

**However her late husband's behaviour and mood for the past month had been extremely agitated and dark.**

**The police are not pursuing this as a homicide because it is, in their mind,**

**a clear and cut case of suicide. There will be the usual inquest/autopsy and most likely a very quiet funeral due to the nature of the death.**

**Our most sincere condolences are offered to his family.**

Some may be wondering if further information will be forthcoming but at this time out of respect for the family there will be no name or credentials given. Perhaps at a future date his widow will be asked if more information should be revealed - it will be her decision.

The material on this page relating to "Deep Shield" has recently (May 2003) raised a numbers of questions with some suggesting that it might originate with a "debunker" or even be a hoax.

The focus of these Holmestead "chemtrail" web pages is to attempt to raise awareness of the illegal aerial spraying activity. The public at large pays little attention to the sky so it does not matter to them at this point in time if there are ten possible explanations for the spraying.

So what if the story below is not a complete and detailed enumeration of all the possibilities? It is not intended to be and the insider makes no claim to know everything that is going on in our skies. That may be found in other departments...

These exchanges of questions and answers did take place and as far as I am concerned the responses are legitimate. The material is presented here in good faith.



In reading this page it may be of value to also look at *Policy Implications of Greenhouse Warming: Mitigation, Adaptation, and the Science Bases* where the conclusion by the U.S. National Center for Atmospheric Research is that the most effective global warming method of mitigation (corrective) is the spraying of reflective aerosol compounds into the atmosphere utilizing commercial, military and private aircraft!

**The individual featured appears to have an "inside track" on the chemtrail spraying programme. There was an opportunity to ask specific questions relating to the aerial spraying and the "insider" then answered the questions.**

**I am aware of the insider's place of employment and the facts presented conform with the type of activities that are carried out there.**

**The responses have the tone of someone with detailed inside knowledge but for reasons of confidentiality it is unsigned. Where population is mentioned also see the Holmestead [Population Explosion](#) page.**

**It is a lengthy piece but when you reach the end please continue as there is a second item following.**

**At 4 April 2003 some supplementary questions and**

answers were added. This makes the piece even longer and again the related item follows. If you wish to skip the first section and go directly to the new material click: [Supplementary](#).

After reading this Shield Project page you may want to see what Jim Phelps has to say about it. Jim worked at Oak Ridge National Laboratory, Tennessee (ORNL) which is funded by the U.S. Department of Energy (DOE) where he worked in research and development. His [comments](#). The page will open in a separate window - it may be kept open, minimized or closed to return here.

If you have read this page you may be interested in this update reporting recent (September 2003) conversations with "Deep Shield": [Two cents worth](#). The page will open in a separate window - it may be kept open, minimized or closed to return here.

Drawing upon material found here and elsewhere Wayne Hall prepared this excellent summation of the issues: ["Strategies Against Climate Change"](#). The page will open in a separate window - it may be kept open, minimized or closed to return here.

January 2005: Wayne Hall has prepared another review of the part atmospheric scientists play in these "chemtrail" debates. He sums it up as being the weird spectacle of seeing scientists advocating measures which they simultaneously ridicule and deny are being implemented.

Rather than a standard web page this link will take you to the document of 139 KB in PDF format for downloading or reading online: "[Climate Change Jekylls and Hydes](#)". The Acrobat pdf file will open in a separate window of your browser if you have the usual plug-in installed - it may be kept open, minimized or closed to return here.

## **Points to Ponder: The Shield Project.**

*Here we quote the communication from "Deep Shield":*

Having read your email, I must say that you are full of questions. These questions I would dismiss immediately as being the frustrated attempts of fringe groups to bring a halt to the project, however these reports of biological material being part of the spray should be addressed. Therefore I will give as much attention to all of your questions as possible.

**1. What purpose do polymer threads imbedded with biological material serve in this scenario?**

Polymers are part of the mixture and they do form in threads and in 'tufts'. The idea is simple and comes to us from the spider. As you may know spider webbing is very light, some newborn spiders spin a 'parachute' to catch the prevailing breeze to travel far from their place of birth. Spiders have

been able to attain high altitudes and travel great distances for long periods of time. Most of the elements used in the spray are heavier than air, even in their powdered form they are heavier and will sink quickly. Mixing them with the polymers suspends the particles in the atmosphere high above the surface for longer periods of time, therefore in theory we do not need to spray as often or as much material. Since the suspended particles eventually do settle into the lowest part of the atmosphere and are inhaled by all life forms on the surface there is an attempt to counter the growth of mold by adding to the mixture mold growth suppressants - some of which may be of biological material.

Mold comes in spores that travel on the winds; the polymers can attract mold spores through static charges created by the friction of the polymer threads and the atmosphere. Add a bit of warmth and moisture and mold begins to grow. The polymer is stored in a liquid form as two separate chemicals. When sprayed they combine behind the plane 'spinning' long polymer chains (threads). Much tinkering has been done with the chemical matrix in past years. Many polymers (plastics) are non-biodegradable thus add to the problem of pollution. Various formulas have been used, some which even use biological agents. It would be great if we could reproduce the same web material that spiders make, it is extremely strong, extremely lightweight and breaks down relatively fast in the ecology.

2. If this spraying is to mitigate global warming, why does so much of it take place at night?

Though it would appear that the dispersal rate of the spray is fast, it actually takes much longer to

be an effective shield. There is a desired concentration being sought. One that is thick enough to stem the UV and the Infrared, while being thin enough to allow visible light through. A perpetual cloud cover would have disastrous effects on plant life; the food chain thus disrupted would soon collapse. The desired effect wanted is a thin cover that would theoretically create a daytime haze that allows plenty of sunlight while providing protection. From UV radiation and also reflect enough infrared to maintain nominal temperatures.

The optimal condition is to use the least amount of material to provide the maximum amount of shielding. Ideally that would be a one-time application which would stay suspended for years, however, as noted, barium and aluminum and other trace elements are far heavier than air and they sink rather rapidly. The different temperatures between day and night causes massive volumes of air to rise during the night, the warm air trapped at the surface rises above the cooling air above. By strategically spraying in certain areas at night, we get the advantage of the rising air, which not only pushes the material higher, but also causes the material to disperse into a thin layer.

I would suggest studying on the subject of weather, namely highs and lows and how air moves to fully understand the times of spraying. I note, it is not just global warming we are combating here, we are also combating UV Summer. Global warming could effectively be treated by applications during the night, when the warm air rises. However the UV needs to be treated during the day. This is why on some days one finds that more spraying is done during the day. The UV indexes are monitored constantly for local areas. If the problem were simply cooling the earth, rockets would have been

used to suspend particles in the high atmosphere. However the delicate nature of the Ozone Layer precludes this method of shielding. More on this in the answer to Question 6.

**3. What other military programs are in place involving the spraying of barium and what are their purposes? Do you know and understand the chemical make up of the element?**

A little knowledge will go a long way to understanding the need to use barium: Barium is often used in barium-nickel alloys for spark-plug electrodes and in vacuum tubes as a drying and oxygen-removing agent. Barium oxidizes in air, and it reacts vigorously with water to form the hydroxide, liberating hydrogen. In moist air it may spontaneously ignite. It burns in air to form the peroxide, which produces hydrogen peroxide when treated with water. Barium reacts with almost all of the nonmetals; all of its water-soluble and acid-soluble compounds are poisonous. Barium carbonate is used in glass, as a pottery glaze, and as a rat poison. Chrome yellow (barium chromate) is used as a paint pigment and in safety matches. The chlorate and nitrate are used in pyrotechnics to provide a green color. Barium oxide strongly absorbs carbon dioxide and water; it is used as a drying agent. Barium chloride is used in medicinal preparations and as a water softener. Barium sulfide phosphoresces after exposure to light; it is sometimes used as a paint pigment. Barite, the sulfate ore, has many industrial uses. Because barium sulfate is virtually insoluble in water and acids, it can be used to coat the alimentary tract to increase the contrast for X-ray photography without being absorbed by the body and poisoning the subject.



Note what Barium Oxide can do, absorb carbon dioxide - one of the chief gasses causing the green house effect. In my answer to Question 4 I will discuss the need to carry a current in the shield. I would like to point out that barium and aluminum work together to diffuse and strengthen an electrical charge. Somewhat like the current produced when acid is introduced between two dissimilar metals, such as iron and copper. There are military applications for everything you can think of, can not a butter knife be used as a weapon? The same concept holds true here.

**4. What is the connection between ELF, EMF, VLF and Chemtrails spraying? Or is there one?**

To understand the use of radio waves in the shield, one first understands how ozone is created. I cannot stress to you how dire the situation really is. The shield in place is only a partial solution; we must counter the depletion of the ozone- this means we must make ozone in the stratosphere. Ozone at ground levels does no good; indeed, ozone pollution at ground levels it what is used to determine the air quality. Higher levels of ground level ozone mean that air quality is bad. Pure ozone is an unstable, faintly bluish gas with a characteristic fresh, penetrating odor. The gas has a density of 2.144 grams per liter at standard temperature and pressure. Below its boiling point (-112?) ozone is a dark blue liquid; below its melting point (-193?) it is a blue-black crystalline solid. Ozone is triatomic oxygen, O<sub>3</sub>, and has a molecular weight of 47.9982 atomic mass units (amu). It is the most chemically active form of oxygen. It is formed in the ozone layer of the stratosphere by the action of solar ultraviolet light on oxygen. Although it is present in this layer only to an extent of about 10 parts per million, ozone is important because its

formation prevents most ultraviolet and other high-energy radiation, which is harmful to life, from penetrating to the earth's surface. Ultraviolet light is absorbed when it strikes an ozone molecule; the molecule is split into atomic and diatomic oxygen:  $O_3 + \text{ultraviolet light} \rightarrow O + O_2$ . Later, in the presence of a catalyst, the atomic and diatomic oxygen reunite to form ozone.

Ozone is also formed when an electric discharge passes through air; for example, it is formed by lightning and by some electric motors and generators. Ozone is produced commercially by passing dry air between two concentric-tube or plate electrodes connected to an alternating high voltage; this is called the silent electric discharge method. Since UV radiation is the problem, we cannot use UV to produce more stratospheric ozone. Another method must be found. The shield acts like one plate of the electrode, when tickled with certain radio waves; it produces an opposite charge to stratospheric layers producing low atmosphere to stratosphere lightening. Creating ozone where it is needed.

5. If this is being done for the reasons you say, then why are other chemicals being used, why are different sprays being used?

Correcting the ecological damage that mankind has done has NEVER BEEN DONE BEFORE. We are relatively new to this notion of terraforming on a real scale. That is what we are doing, Terraforming. We are trying to recreate the ideal life-sustaining conditions on a dying planet. We have never done this before, not intentionally. We are testing and trying different methods. Granted, if we do nothing 89% of all species will go extinct and humanity stands a high chance of not surviving through two

more generations (or less). However the idea of 2 billion casualties death and permanent injury is not easy to swallow either.

Several attempts to improve the application of Shielding material and getting the most out of each application are taking place all the time. The combined resources of the nations of earth are not enough to allow constant spraying. Though we have achieved a high level of technology, there is a great surface area that needs to be covered nearly daily. Large sections of ocean are all but ignored; the remaining land masses are more than what can be covered effectively. The Shield would work best if it was a single thin layer without interruption, however due to the movement of air, weather patterns and the sad fact that we do not have the means to place ample amounts of material at the same level at the same time we are getting a small fraction of the effectiveness from our applications.

**6. Why is spraying found before storm fronts? Is it to cause drought?**

Before a storm there is a front, the front clears the air before a storm, pushing particulate matter ahead of it, leaving a space relatively clear of particulate matter. UV radiation levels rise in these areas, sometimes to dangerous levels. The shield must be maintained. Since barium absorbs water as well as carbon dioxide, precipitation has been affected. Other kinds of sprays are in development and testing which may reduce the affects on precipitation. As I stated above, this is a new technology we are working with, it is still in its infancy and there are some problems with it.

**7. Why are UFO's and disappearing spray planes**

reported?

I do not know.

**8. What about the reports of sickness after spraying?**

There are several causatives for this. Some people are more sensitive to metals, while others are sensitive to the polymer chemicals. As stated in a previous email, people will get sick, and some will die. It is estimated that 2 billion worldwide will be affected to some degree by the spraying. Without spraying we have a 90% + chance of becoming extinct as a species within the next 20 years.

**9. What is the relationship between these spraying programs and One World Order?**

Personally I am against the move for globalization, and yes, there is potential to use the Shield to speed up the process of globalization, there are several countries that are involved in this project: European Union Nations, USA and Russia are the largest contributors to the project, many of the allied nations and UN Members participate to one extent or another. The material (chemical spray as you may call it) comes from all of these nations.

To insure that the chemicals are not tampered with, they are mixed and sprayed over random nations. This means that chemicals produced in the USA has a good chance of being sprayed over Russia, England and the USA. This random spray of material means that no nation would be certain that their chemicals will be sprayed over a nation which they have issues with. Russian planes may be seen in USA skies, but so too will USA planes be seen in Russian skies. The canisters used are sealed

in a third nation that has no idea where its canister is going. Participating nations have their observers at every station where canister loading is done. All of this to insure that the shield is not used as a weapon. To further insure that the shield is not used as a weapon, non participant nations are sprayed by participants who must spray in order to get enough material to maintain their nations shield. It is understood that not spraying is as much a military offense as shooting at them.

Without the shield, UV poisoning would cause great death. The threat is a common one, which has brought nations together in defense. The natural outcome of having a common enemy is to strengthen international ties - a step toward globalization.

#### 10. Is the Spraying related to terrorism?

Yes and no. Recent terrorist activity can be traced to resistance groups who feel that we should not interfere with the natural order of things. As you know, there are many rumors out there as to what the Shield Program is. Some believe that this is a population reduction scheme, designed to kill off 'undesirable' peoples. While others hold that this is a mind control program. There are many theories which have sinister plots in them these are propagated by the resistance groups in an attempt to stop the shield regardless of the consequences.

The same delivery method could be used for biological and chemical warfare. It could also be used to inoculate large populations, the effectiveness of these uses are low, there are better methods that can be used. As a means to fight terrorism it is ineffectual, it is far easier to inoculate a population individually and would insure full

inoculation against germ warfare.

#### 11. Why all the secrecy?

Due to the severity of the situation it is mandatory to maintain public calm for as long as possible. The Earth is dying. Humanity is on the road to extinction - without the Shield mankind will die off with in 20 to 50 years. Most people alive today could live to see this extinction take place. This means that an announcement of the situation we face boils down to telling every man, woman and child on earth that they have no future, they are going to be killed. People would panic. There would be economic collapse, the production and movement of goods would collapse. Millions would die in all cities on earth, riots and violence would reduce civilian centers to rubble within days. Half of the population in dense metropolitan areas would try to leave the cities seeking 'safety' in the rural areas thinking that they would be safe. Those left behind in the cities would be at war with their neighbors, fighting for the remaining supplies. We would be telling the world that the world is coming to an end, and even with the Shield the chances of survival are small.

UV Summer and Global Warming are the immediate problems we face, there are far greater problems that are raising their ugly heads and will present new problems which in some cases have no viable solutions at this time. Ecologies are collapsing. The extinction rate of species is climbing. The amount of chemical pollutants in the water and soil are fast approaching and in many places has surpassed the earth's ability to heal itself. Crop failure is on the rise, even in the USA the returns on crops are smaller than they were 10 years ago. Even with the advances in genetically

altered food crops, we are falling behind in our ability to produce enough to go around.

Throughout the 20th century chemical fertilizers and pesticides were used to insure the best yields. Unfortunately many of these have contaminated ground water, killed beneficial insects along with the undesirable insects. These chemicals have gotten into the food chain and are affected other species besides mankind. It is only a matter of years before famine spreads like a cancer throughout the world.

Clean fresh water is in short supply, in many places well water is non-potable, containing the run off of pesticides, herbicides and fertilizers that have been used on crops and lawns. The water treatment facilities we have are unable to scrub out all of the toxins we have placed in the soil and water supply. Many of the toxins we find build up over time in the body, a long slow poisoning which has been making its presence felt in many areas of the world in the form of cancers, leukemia, sterility, birth defects, learning disorders, immune deficiency problems, etc. These are on the rise, any good researcher can find the records. For decades there was public outcry for the end to pollution. For every small step we made to clean up our production, millions were born who added to the problem. Yes, pollution is down per individual, however there are a couple more billion individuals producing pollution, thus the real numbers have an increase in overall pollution produced. Name a city that does not have problems with smog. You would be hard pressed to find one. Though smog controls on automobiles is higher than ever before, the number of autos on the road has increased thus the amount of smog producing pollutants is higher than ever before. All the clean air acts passed to curb individual factory and auto emissions did not address the production of more factories and more

autos. Here an uneasy compromise was made between the need to maintain the economy against the need to maintain the ecology. The ecology lost since it was estimated to be a problem decades from now. The economy was a problem that would have dire effects today.

All of these factors combined have produced a scenario that in shorts boils down to the end of the world in 50 to 75 years. Even if we were to stop all emissions of pollution today, the inertia of past decades is enough to carry us over the brink in 100 years. However we cannot stop the production of pollution, to do so would mean shutting down every factory, every auto, every train, truck, ship and every household on the planet. Electricity is used to heat many homes in the Western World. The production of electricity produces fewer pollutants than heating all homes with wood or coal. Cutting our power generation abilities down to hydroelectric and fission reactors would leave a good chunk of the world in the dark. It is an impossible situation, our civilization is geared to the use of energy, take away our energy and civilization will collapse.

## **12. When will spraying stop?**

There are several factors governing this:

**A. Should the Ozone layer repair itself or our active attempts at repair reduces the amount of ground level UV to acceptable levels, spraying will stop. Present calculations place this between 2018 and 2024.**

**B. Should another method be found which is more effective, less costly or presents us with long-term solutions the Shield project would be replaced.**



**C. When the other problems become too big to make the maintenance of the shield worth the effort. The estimated date for this is 2025 to 2050.**

**13. Since Global Warming and UV summer are the problem, why is the Government backing down on its pollution controls?**

**Because they are ineffectual and will cause more economic problems than they would solve ecological problems. We surpassed the threshold of Earth's ability to absorb pollutants in the 1970's. Since that time the earth's population has nearly doubled. Emerging Industrial nations have come into being, more pollutants are produced now than back then, even with the stringent controls in place. The world is heading for economic depression, more emission controls would add to the economic problems. This translates into our being unable to do anything to start solving the problems.**

**Unfortunately our technologies require a strong economy to advance. We need that advancement, we need the trillions of dollars spent on research that a strong economy causes. Each corporation that produces a product has a product development program in place. Many of the past products invented came by accident through other unrelated products. There is a corporate drive to find methods to clean up the ecology, to reduce emissions, etc. These goals have been in place for decades, many of the large corporations are in the know when it comes to the ecological problems we face thus they are spending a great deal of money and time on finding solutions to the problems we face. Take away the economy and their research stops.**

**14. How are you related to the Chemtrails? How do you know that this is what is happening?**

**I would prefer to not state who I am or how I am related to all of this. To validate what I say, would require a bit of research on your behalf. I would recommend the following subjects to look up and study:**

**A. Population numbers for industrial nations and the tons of pollutants produced annually. Start with 1975 and work your way up.**

**B. Number of emerging Industrial Nations.**

**C. Number of cases of Skin cancers worldwide.**

**D. Crop Production vs. land area dedicated to crop production. Simple math will show that more acreage is needed to produce food per individual.**

**E. Automobile production from 1975 to present, estimated number of autos on the road and the average emissions of later model cars produced as compared the emissions of earlier model cars. A little math will show that though individual autos produce less emissions, the amount of emissions has risen due to the number of autos on the road. Remember that many autos are the road that were built before present emission control standards. 1980 is a cut off date - anything put on the road before then produces more pollutants than autos produced today. I would include research in the number of diesel autos produced, diesel has not been under the emissions control acts.**

**F. Severity of storms and the number of severe storms. Also include heat waves and droughts in that research, you will find that the numbers are**

staggering when compared to data from 1950, 1960 and 1970.

G. Research how naturally occurring Ozone is produced in the stratosphere. Compare to how it is produced industrially.

H. Research political reforms in the past 30 years, see which political institutions have changed, which nations have joined with whom. Concentrate more on these from 1982 onward. This would include the fall of the Wall and Iron Curtain.

I. Research polymers and how they are made, look at recent research done in biological polymers, medical polymers and filaments.

J. Check out spiders and spider web and the way spiders use their different webs and threads.

K. Research clean fresh water estimates as compared to the 1970's to today - world wide.

L. Research the following medical conditions per capita: Birth Defects Cancers Leukemia Immune deficiency diseases (excluding virus borne ID illnesses such as HIV) Occurrences of Learning disabilities, including dyslexia, ADD, and over all IQ tests Sterility for both male and females world wide Instances of glaucoma and cataracts.

M. Compare the history of UV indexes from 1970 to present. You may note that it was on sharp rise until 1997-99.

N. I would strongly recommend researching the reactions of different barium and aluminum compounds and how they are used. Research how long it takes for these metals in pure form to oxidize, how they combine with nitrates, carbon

monoxide carbon dioxide and fluorocarbons and hydrocarbons and water vapor.

O. Research how mold propagates, the conditions it needs to grow and just how abundant it is in the atmosphere.

If you pursue these lines of inquiry, you will see the Shield Project as it really is.

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At the time of the US-lead invasion of Iraq I had the opportunity to ask a few supplementary questions. There has been no attempt to integrate these questions and answers into the previous section therefore some may appear somewhat out of logical order.

A couple of the questions have a Canadian approach. By the way, I came up with the name - have to call the source something!

*Here we quote the further communication from "Deep Shield":*

15. Could you, "Deep Shield" - be described as a scientist or...?

Scientist is a good generic term. I do study and research in a scientific manner. I carry papers and degrees. My official capacity is in direct research of atmospheric issues in relation to pollutants. I also create models of potential

long-term effects of green house gasses on the climate. Predict wind patterns, weather patterns, etc.

I have spent a good many years working on the project calculating the amount of material needed and creating models for dispersion patterns. I work other members who know the chemicals used and their interactions with the atmosphere, pollution and water vapor. I am part of a team which itself is part of a larger team, which is part of still a larger team. Government work with many chiefs and levels above the workers.

16. Are you prepared to comment upon your personal motives for sharing this information?

Not at this time, no.

17. Have you signed a non-disclosure or Secrets Act document that specifically relates to this project?

Yes.

18. To your knowledge what categories of individuals officially know of the Project and are expected to remain silent? For example, my list of suspects includes government down to the county level, military especially air force, meteorologists, health specialists, mainstream media etc.

All those who know are expected to remain silent. All of those who suspect are either faced with trying to prove the virtually unprovable or are faced with good enough reasons to remain silent. I would assume that this situation is worldwide and could be considered one of the dangers of this project.

It was presented to me as a matter of national security. I can see the reasons why there is a desire to repress the information not that spraying is taking place but the hard little fact that we are facing a period of human history which might be the end of civilization.

19. Is the mainstream controlled media specifically ordered to avoid any mention of chemtrails? If so, have you anything further to add such as how

**was this done?**

**I would assume that the Media is controlled by its own desire to make money from what it reports. Since there is enough debunking out there, which says that contrails are part of the normal use of jet engines in the atmosphere, this would leave a reporter with very little to report unless there was solid evidence or pictures or something that could not be explained away.**

**You must know by now all the debunking methods that have been employed. The 'official' announcements are the media's main dish. The rest they regulate to the realm of the National Enquirer.**

**20. What government agency or agencies control this program? Is it under international control?**

**It is an international program. Many nations contribute in different ways. Measures have been taken to insure that what is sprayed over all countries is the same through triple blind deliveries; which include not knowing where a certain canister will end up, not knowing which aircraft a certain canister will be flown, and not even knowing who (in military craft) will be piloting a craft which has the purpose of spraying (Note: in today's world there is usually a mixed crew of different nationalities flying any one military aircraft on a Shield mission). I believe the Media caught Canadians in Iraq recently when Canada's official say on the matter was that Canada was not giving any support to the military might.**

**The fact remains that there were Canadian military with the USA forces. Some on aircraft carriers most being pilots. I think you can connect the dots.**

**21. How is the project funded - who pays for it? Have you any idea of the total direct operating cost? Also, does Canada make a funding contribution for the activities in our skies?**

**Most governments tend to over charge themselves to cover for their black operations (unofficial operations). That money comes out of the collection of taxes. So in effect the taxpayers of the world are paying for this project.**

**I would assume Canada does contribute funding to the Project. Canada is one of the top nations contributing time, material and funding to this project. Most of the Free World, the Western World, has taken on most of the burden of the**

costs.

**22. Is the Shield Project the only such aerial spraying program?**

Is it the only project designed to avert ecological disaster? Then yes. There are countless other projects that could be taking place which include spraying of some sort or another. Pesticides are usually sprayed. There has been great interest in weather control such as bringing rain to arid regions and taking the punch out of hurricanes and typhoons.

Weather control may be one of the final options left to us. Considering the amount of global warming that has taken place. There is a strong need to deflect a storm's fury, or to bring rain back to those regions which have been suffering drought.

What Mother Nature has done for millions of years automatically may now require mankind's hand to keep the schedule.

**23. There are reports of four different chemtrail programs and other "code" names. For example, see: [Holmestead: Chemtrails - what are they?](#) Any comments?**

It is possible that the Military does have a use for similar sprays. I cannot speak for the Military. However, my own personal research has come across these things as well. Are they possible? Yes. Are they practical? Only in the small scale say over the battlefield, or in the case of say the Iraq War, over Baghdad. Global application would be far too expensive and would require an obvious flight pattern of grids, circles and other heavy spray patterns.

**24. Is all the spraying done using the "tank kits" described earlier or are the KC-135R and KC-10 types filled to the brim? Such aircraft have a load capacity of 200,000 pounds or more for refueling missions.**

No. Several types of craft are used. Commercial jet airliners are used and they are not diverted from their flight paths to do so. How the canisters and the spraying is done on this kind of craft is unknown to me exactly. I do have my suspicions. I know best that which is my field; this is not to say that we do not talk around the water tank. So I know more than just my area and am able to

think the matter through to its logical end.

I do know that even all the commercial jetliners in use are not enough to insure complete coverage all of the time. My computer models require knowing how much material needs to be sprayed. Certain conditions cause wide areas to suddenly (over hours) open up in the Shield. Then and only then is mass spraying done - and would be done with the most logical craft, a tanker.

Why not spray more from individual jetliners? That is one of the problems. Jetliners do not carry much material (100 to 500 gallons) because the material has to be spread out thinly.

Look at the kinds of material being used, aluminum, barium, titanium, etc. Most are highly reflective; in some instances the material is an absorber of gasses. In the case of reflection the desire is to reflect X amount of heat and X amount of UV while still maintaining acceptable (nominal) levels of UV and heat reaching the planet's surface.

Life requires a certain amount of both UV and Heat too much will kill - so will too little. The apparent amount looks like a lot more than what is actually being sprayed per volume of air it is covering. Most of the whitening of the sky is not the material per se, but the collection of water vapor, which forms into suspended ice crystals. The introduction of the material causes the water vapor to collect like rain collects on individual particles of dust.

Too much material would cause a "mud fall" of sorts where the naturally occurring water vapor would precipitate carrying the material with it.

Spraying is done in such away as to "layer" the material through a volume that will allow an acceptable level of UV and heat through along with all the other wavelengths of light. Photosynthesis is the foundation of life on our planet.

Only when all the material is removed in a local area does it require a massive spray, this is usually in the front of a weather system, or after a heavy period of precipitation. Then a tanker is flown, fully loaded.

25. Is there any truth in the story that some of the spraying is done by jetliners with modifications in the "honey" or waste compartment? For example, see mechanic story: [Mechanic](#).



The technology used for spraying is rather simple. It requires at least two tanks under pressure, each carries half of the mixture which is sprayed at the same time forming a complete compound which is designed to be lightweight (so as to be suspended for longer periods of time).

There have been attempts to incorporate the materials in jet fuel, however the material binds with unburned jet fuel, water vapor, etc and does not have the added buoyancy of the polymer threads. The end result is a spray that is less than half as effective and is more dangerous since it can lead to sulfates, acids and other mixtures, which are more lethal than the spray.

It is very possible that the "honey" compartment is used. The amount of material needed is small compared to the payload of any given commercial airliner.

However, there is a good deal of fuel tank that is not used. Airliners only fuel their craft for the journey ahead of them; they rarely top off the tank. This has become public knowledge in light of 9-11. It was this small fact that caused the terrorists to pick pan-continental flights so they would have a plane fully loaded.

The majority of flights are short range and do not require the full capacity of an airliners fuel tanks. Any adaptations needed could easily be done during routine maintenance, and could be easily explained away as being a modification for safety and-or pollution controls.

This last is my own theory.

We can assume that any means possible to deliver the material is tried. Independent nations may favor one way of doing so over another.

26. Where are the official sources that state that a certain number of people (worldwide?) will sicken and possibly die as a result of the spraying? In other words, what \*internal\* studies have been done on the health issues and who carried them out?

WHO (World Health Organization) carried out most of the studies. Other nations have carried their own research on the matter. Some have said the ill effects will be minimal - along the lines of a million or so, while others have found the

numbers to be far higher - 3 to 4 billion.

Some of the organizations include the CDC and independent labs. We are dealing with a situation where the amount of contamination is estimated to be far higher than what would normally take place but is far lower than historical instances of industrial contamination. This is important to note, the only real history we have with barium/aluminum/titanium etc. contamination is through factory workers, miners, etc, who receive a far greater dosage of the material than what is to be experienced by the populace under the Shield.

The amount of spray is very small compared to the volume of the space that is covered. Most of the harmful chemicals that are used are being dissipated over vast areas. Near coastal regions the fall out is not reaching land at all, but is being carried out to the oceans. The addition of polymers to make the material remain suspended in the air longer means that less material is being used.

Today the material used and its application is nothing like in the early days when it was sprayed in greater quantities and settling far faster to be inhaled by all.

The accepted Estimated Casualties (from WHO) is 2 billion over the course of 6 decades. The majority will be either the elderly, or those who are prone to respiratory problems. These numbers are based on the current estimates of the general health of the population, the average age and the occurrence of respiratory problems as a health issue. All are estimates since there are no solid numbers to work with.

27. Could you summarize the root causes of the initial destruction of the atmosphere that requires this "repair" work? Did it perhaps result in part from fluorides released/produced by the nuclear weapons programs?

In a word - Industry. Most fail to understand that the products we use, wear and live with are made in a manner that dumps CFC's and green houses gasses into the atmosphere. There is no one single causative in this issue. It goes way back to the Industrial Revolution and the use of coal to power steam engines. Since that time we have consumed greater and greater energy resources, dumping the waste where ever we wanted.

Up until very recently refrigeration was a big contributor, imagine all those hundreds of millions of households that owned and operated freon cooled

refrigerators from 1940 to 1970. Not just one refrigerator per household, but over the course of time often multiple freon units. This doesn't include the various air conditioner systems or industrial refrigeration systems.

For a long period when the refrigerator or air conditioner unit was replaced, the old one was taken to the dump and thrown into the heap - the freon was free to escape and make its way up into the stratosphere to eat away at the ozone layer.

You can add to that list. Think of all the cars that had air conditioners, think of all those hair spray cans with their propellant gasses - the amount of those alone were enough to do great damage.

Styrofoam is another industry and product that has contributed to the problem. In the scheme of things atomic energy has contributed little compared to the consumer goods that have been manufactured during the past century.

Think of all the cars on the road today. In the late 1970's smog controls started getting stronger. Think of all the pre-1978 cars on the road - they are still producing a good many chemicals that leech into every corner of the globe.

28. Have you any comment on the use of so-called "CloudBusters" based upon the theories of Wilhelm Reich? For an example of this see: [CloudBuster](#).

I could go on for hours about the particular errors of this site. (15 September 2005: Note that due to misunderstanding of this answer by some it is necessary to make clear that this reference by DS is to the: [CloudBuster](#) web site mentioned in the question.) Let us just cut to the chase: I seriously doubt that this machine does as it is reported to do. I could be wrong, but then I do not work with alternative energy sources such as Orgone energy.

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## **Points to Ponder: Conroy Penner, British Columbia.**

*Here is the second item mentioned above:*

Conroy Penner, of Victoria, British Columbia, Canada contacted me directly with his story. He told me that some years ago he used to work for a certain company in Western Canada and along with another person who was a qualified aerospace welder/fabricator he was assigned to work on construction of some special spray equipment for the United States Air Force.

The workers were told that the USAF contract involved equipment to be used to spray insects at airforce bases in the States. The spray systems incorporated exotic alloys and specially machined parts with large holding, pressure and surge tanks along with pumps. Penner became suspicious of the actual purpose of the whole project as, in his opinion, things simply did not "add up". He resigned after there were confrontations with the US military people and the management over the true purpose of the equipment.

Penner provided this photograph, that was taken in 1988 of some finished spray equipment on a flat bed trailer. There are parts carts in the foreground.



The description states that the green tank sections are coated aluminum and the others are stainless steel for certain other chemicals. The smaller tanks are for the solution for purging the system. The large tanks are some 15 feet long and approximately 3 feet in diameter. The box seen at the right side of the photograph is the control panel, and the plumbing and pumps are underneath the tanks. It is said that these units were designed for use with Hercules C-130 aircraft and it is understood that in total eleven systems were to be made, this being the first.

I have on hand many other specifics from Penner but that is the general outline. All of this took place in 1988/89.

*Comments:* There are obviously some problems with this - it would be great to have the exact dates along with the names of the company management involved. Also the names and rank of the US military personnel involved is lacking.

As for the equipment itself - it looks much as if it could be ordinary aerial spraying systems - that is because indeed it may be just that with suitable modifications for the specialized USAF

requirements. At this time the aerial spraying programme (chemtrails) was in the early stages of experimental development. Certainly at first it was reported that the C-130 was seen being used for aerial spraying (of unknown substances) and only later were the large refueling tankers seen spraying "chemtrails".

*Further comments:* Added 26 March 2003 - is an addition from (and confirmed by) the source of the main item above.

The canisters that are shown above are similar to what is known to be incorporated into this programme.

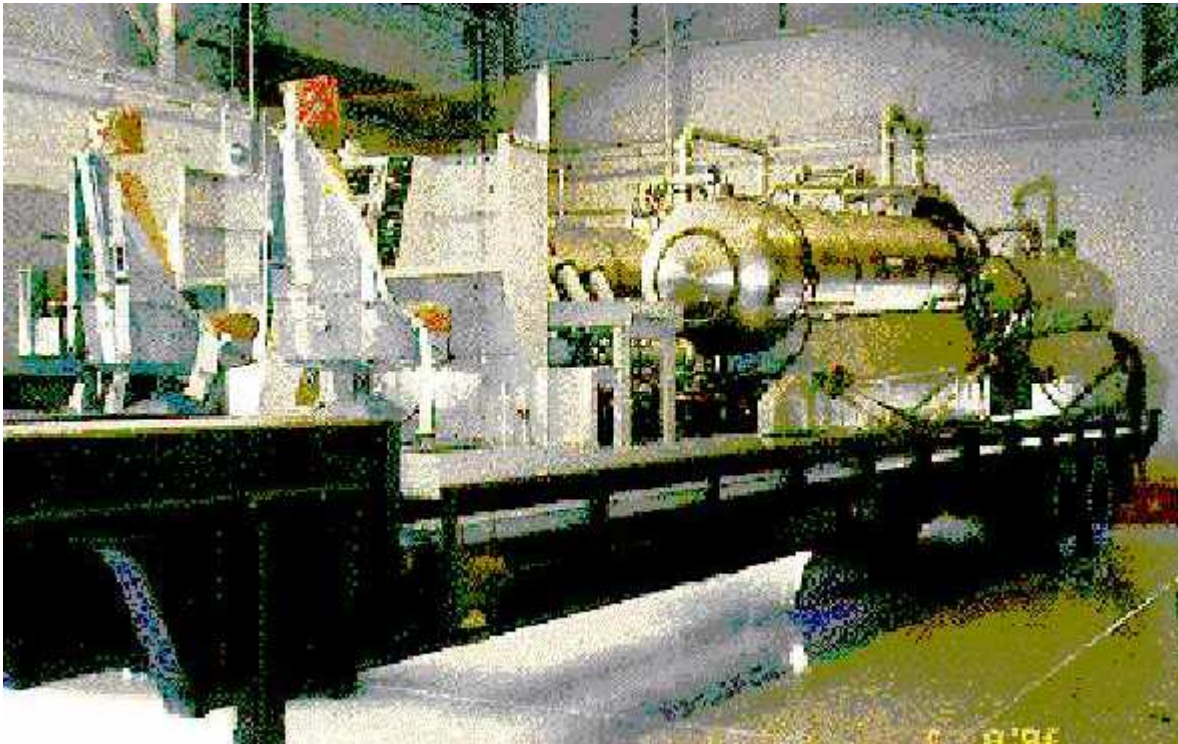
Two large ones are carried, one carrying one part of the chemical mix, the other carrying the other part, when combined they form long polymer chains - threads if you will. Even the green tint finish is typical.

However, the way it is understood here, is that the small tank provides the propellant (compressed gas) which is released into the larger tank. Much like a large aerosol can, except the compressed gas is stored in a separate tank which is much stronger, and able to sustain a far greater pressure than a larger tank.

Further confirmation of this particular aerial spray system is found at this United States Air Force Reserve, 910th Airlift Wing of Youngstown, Ohio website: [Air Force Reserve - MASS](#). Plus, here is a second Air Force web site showing the [MASS in use](#) for aerial spraying. These pages will open in a separate window and may be kept open, minimized or closed to return here. Here the first page is quoted in part:

**"Six Modular Aerial Spray Systems (MASS) are available at the 910 AW to conduct aerial spray missions.**

**Each system can be configured with up to four 500 gallon tanks for a total volume of 2000 gallons.**



### **USAF C-130 MODULAR AERIAL SPRAY SYSTEM (MASS)**

**The Aircraft.** Four C-130H aircraft are modified to perform aerial application. Modifications consist mostly of ULV (Ultra-Low Volume) and LV (Low Volume) wing line installation and electrical modifications.

**Spray System.** The MASS is built by Lockheed/Conair. One of the major design criteria of the MASS was that it had to be a "roll-on/roll-off" system allowing the aircraft to be reconfigured for spray or airlift in under an hour. To accommodate the Roll-on/Roll-off design, the full MASS is designed in 3 modules, each attached to modified standard (463L) aircraft cargo pallets. The operators console, pumps, catwalks, and cradles for flush and chemical tanks are all secured to these modified pallets. The pallets lock into the C-130's dual rail system. Once the MASS is loaded, interconnecting plumbing and electrical circuits tie the MASS modules together. To contain any spillage of spray materials, a 1.5" lip (drip pan) surrounds the pallets. The dry weight of the MASS is ca. 10,500 lbs."

The 910 Airlift Wing webpage continues with more technical and operational details.

<http://www.holmestead.ca/chemtrails/shieldproject.html>

