

Presented at G. Edward Griffin's "Global Warming: an Inconvenient Lie" http://inconvenientlie.com/

About Jim Lee: https://climateviewer.com/rezn8d/

ClimateViewer 3D: http://climateviewer.org/3D/

Reference Pages: https://climateviewer.com/geoengineering/ https://climateviewer.com/haarp/ https://climateviewer.com/chemtrails/

Weather Modification and Geoengineering Timeline: http://climateviewer.org/geoengineering-timeline/ > http://weathermodificationhistory.com/ (coming soon)

Weather Modification History

Global warming alarmists and climate scientists would have you believe that the latest extreme weather events can surely be blamed on rising CO₂ levels while never mentioning the effects of daily weather experiments overhead.

WeatherModificationHistory.com

Weather Is Not Climate

"No, weather is NOT climate...even when it's warm outside. But in case there's a climate cultist in your life that insists otherwise, here are some facts about global warming, climate change, climate disruption, global weirding and vaguely-defined "extreme" weather that you can use to talk some sense into them."

www.corbettreport.com/weather-is-not-climate/ James Corbett, The Corbett Report



https://www.corbettreport.com/weather-is-not-climate/ https://www.youtube.com/watch?v=i1ytss9lfFs&t=391 http://www.livescience.com/50704-hurricane-drought.html



Now you will



https://climateviewer.com/2016/01/22/1978-enmod-convention-on-the-prohibition-of-military-and-other-hostile-use-of-environmental-modification-techniques/

Opened for signature May 18, 1977 https://en.wikipedia.org/wiki/Environmental_Modification_Convention http://www.un-documents.net/enmod.htm

Charles Mallory Hatfield – 1915-1916

The Moisture Accelerator

Created a secret mixture of 23 chemicals in large galvanized evaporating tanks that, he claimed, attracted rain.

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

https://climateviewer.com/2014/03/25/history-cloud-seeding-pluviculture-hurricane-hacking/



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

In 1915 the San Diego city council, pressured by the San Diego Wide Awake Improvement Club, approached Hatfield to produce rain to fill the Morena Dam reservoir. Hatfield offered to produce rain for free, then charge \$1,000 per inch (\$393.7 per centimetre) for between forty and fifty inches (1.02 to 1.27 m) and free again over fifty inches (1.27 m). The council voted four to one for a \$10,000 fee, payable when the reservoir was filled. A formal agreement was never drawn up, though Hatfield continued based on verbal understanding. Hatfield, with his brother, built a tower beside Lake Morena and was ready early in the New Year.

On January 5, 1916 heavy rain began - and grew gradually heavier day by day. Dry riverbeds filled to the point of flooding. Worsening floods destroyed bridges, marooned trains and cut phone cables - not to mention flooding homes and farms. Two dams, Sweetwater Dam and one at Lower Otay Lake, overflowed. Rain stopped January 20 but resumed two days later. On January 27 Lower Otay Dam broke, increasing the devastation and reportedly causing about 20 deaths (accounts vary on the exact number).

Hatfield talked to the press on February 4 and said that the damage was not his fault and that the city should have taken adequate precautions. Hatfield had fulfilled the requirements of his contract - filling the reservoir - but the city council refused to pay the money unless Hatfield would accept liability for damages; there were already claims worth \$3.5 million. Besides, there was no written contract. Hatfield tried to settle for \$4000 and then sued the council. In two trials, the rain was ruled an act of God but Hatfield continued the suit until 1938 when two courts decided that the rain was an act of God, which absolved him of any wrongdoing, but also meant he did not get his fee.



https://en.wikipedia.org/wiki/Vincent_Schaefer https://en.wikipedia.org/wiki/Irving_Langmuir https://en.wikipedia.org/wiki/Bernard_Vonnegut



http://www.dtic.mil/dtic/tr/fulltext/u2/006880.pdf

http://en.wikipedia.org/wiki/Project_Cirrus

https://climateviewer.com/2016/10/08/is-homeland-security-steering-hurricane-matthew/

The cyclone was historically significant in that it was the first tropical cyclone to be modified as part of a multi-year operation called <u>Project Cirrus</u>. In July 1946, General Electric (GE) scientists concluded after experimentation that dry ice seeding could induce heavy rainfall and thus ultimately weaken storms by cooling temperatures in the eye. To undertake Project Cirrus, **GE**, the United States Army, the Office of Naval Research, and the U.S. Weather Bureau functioned jointly on research and planning. Early on October 13, 1947, 200 pounds (3,200 oz) of dry ice were dropped throughout the storm, then located about 350 mi (560 km) east of Jacksonville, Florida. While the appearance of the clouds changed, the initial results of the seeding were inconclusive. Shortly after the seeding took place, the hurricane turned sharply toward the Southeastern United States. While the move the leading GE scientist later blamed upon the seeding, subsequent examination of the environment surrounding the storm determined that a large upper-level ridge was in fact responsible for the abrupt turn – Wikipedia: 1947 Cape Sable hurricane https://en.wikipedia.org/wiki/1947_Cape_Sable_hurricane



https://en.wikipedia.org/wiki/Irving_P._Krick#Post-war_practice http://www.winterwatershedconference.org/presentations_2015/History%20of%20Cloud %20Seeding%20in%20AZ%20James%20Walter%20SRP%20Jan%2029%202015.pdf



http://projecteuclid.org/euclid.bsmsp/1200513997

Randomized cloud seeding in the United States. by Court, Arnold. Proceedings of the Fifth Berkeley Symposium on Mathematical Statistics and Probability, Volume 5: Weather Modification, 237–251, University of California Press, Berkeley, Calif., 1967.



New Fuss Raised Over Jet Trails

As you know our entire economy is dependent upon tourist trade, which is predicated on our bright sunshine and warm climate. Recently our sky has resembled a mob of exuberant sky riders performing an aerial circus. The 'contrails' are breaking down into a haze and creating a cloud-like appearance in the sky. The Air Force, so far, is flabbergasted.

References

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https://news.google.com/newspapers?nid=1338&dat=19581206&id=VwBYAAAAIBA J&sjid=FfcDAAAAIBAJ&pg=6955%2C1632252&hl=en



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cloud seeding and lightning studies (forest fire prevention).

http://www.dtic.mil/dtic/tr/fulltext/u2/a952223.pdf http://gao.justia.com/national-science-foundation/1972/5/cloud-seeding-activitiescarried-out-in-the-united-states-under-programs-supported-by-the-federalagencies-b-100063/B-100063-full-report.pdf http://journals.ametsoc.org/doi/pdf/10.1175/1520-0450(1967)006%3C0102%3ACSACTG%3E2.0.C0%3B2



West Coast USA mountain cloud-seeding with Irving P. Krick's ground-based seeders

http://wrri.nmsu.edu/publish/watcon/proc17/Kahan.pdf https://en.wikipedia.org/wiki/Irving P. Krick#Post-war practice



http://en.wikipedia.org/wiki/Project_West_Ford http://space.skyrocket.de/doc_sdat/westford.htm



https://climateviewer.com/2013/11/08/hurricane-hacking-battling-the-big-oneswith-project-stormfury/ http://www.aoml.noaa.gov/hrd/hrd_sub/sfury.html http://journals.ametsoc.org/doi/pdf/10.1175/1520-0477(1985)066%3C0505:PSASC%3E2.0.CO%3B2 http://www.thelivingmoon.com/45jack_files/03files/Project_Stormfury_NOAA.html



http://www.sciencedirect.com/science/article/pii/0032063365901807 http://www.igpp.ucla.edu/public/mkivelso/Publications/019-RS008i011p01035.pdf



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http://www.nss.org/settlement/ssp/library/1978DOESPS-MilitaryImplications-Ozeroff.pdf http://r3zn8d.files.wordpress.com/2012/01/1978doesps-militaryimplicationsozeroff.pdf https://climateviewer.com/2014/09/22/history-haarp-heating-holes-heaven/



Illinois and New Jersey officials will not settle pollution suits against the nation's major airlines out of court, despite Tuesday's agreement between the airlines and the federal government to lean up the jet aircraft exhaust. The government will tell the nation's 43 commercial airlines Tuesday that they must end pollution of the skies with jet engine smoke by 1972 or face punitive legislation from Congress. Mainly at issue is the installation of a redesigned combuster – or burner can – on 3,000 existing commercial jet engines of one maker that reportedly account for 70 percent of all smoke pollution from airliners. ... thus the familiar "black belch" will be seen no more. A jet air plane in one landing and takeoff drenches the environment with as much soot as 2,500 automobiles produce in a entire day... soot, gases of carbon monoxide, aldehydes (irritants in smog), hydrocarbons, and nitrogen oxides. 10,000 tons of particulate matter (three airports) https://news.google.com/newspapers?nid=1982&dat=19700121&id=roJGAAAAIBAJ &sjid=zywNAAAAIBAJ&pg=2670%2C3106142&hl=en https://news.google.com/newspapers?nid=888&dat=19700119&id=DUtSAAAAIBAJ &sjid=1XsDAAAAIBAJ&pg=6939%2C7171728&hl=en https://news.google.com/newspapers?nid=1298&dat=19720912&id=M3MQAAAAI BAJ&sjid=R4sDAAAAIBAJ&pg=7178%2C1305490&hl=en https://news.google.com/newspapers?nid=1964&dat=19710917&id=GMUiAAAAIB AJ&sjid=WrcFAAAAIBAJ&pg=806%2C244201&hl=en



Make it rain on 'em



The following information about the 3 WC-130A aircraft comes from Tom Robison's on line article <u>WHISKEY CHARLIE</u>. Tom is a former Met/ARE troop with both the 55th and 54th WRS. He is probably the foremost authority on all things WC-130, and most things dealing with weather reconnaissance (including atmospheric sampling).

"Few aviation writers and historians seem to be aware that there were three WC-130As. These three were originally trash-haulers, borrowed from TAC in late 1966 for use in Operation "Popeye", the rain-making mission in Southeast Asia, set to begin the following year. The intent of the mission was to create enough year-round rain to keep the Ho Chi Minh trails impassable with mud. Tests were conducted over Laos in 1966, and the operational missions began in March of 1967 from Udorn RTAFB, Thailand. They were flown by crews of the 54th WRS, rotated on a regular basis from Guam. In addition, 54th crews were sometimes called upon to conduct synoptic weather reconnaissance from Udorn over various areas of Southeast Asia, out to and including the Bay of Bengal.

The A-models were modified for weather reconnaissance, probably at WRAMA, with the AN/AMR-1 system. They were not configured for atmospheric sampling. Two were kept at Udorn, with the third rotating to and from Guam for maintenance, repair, and crew changes, from June 1967 through late 1970. When the third one was not enroute to/from Thailand, it was used for normal weather reconnaissance activities from Guam. In late 1970 the A's were replaced with three 1958 B-models, and the rain-making mission continued through mid-1972 with whichever B- or E-models were available from the 54th. After reconversion to transport, the A's were transferred to Air Force Reserve units. During their

brief stint as rain-makers, they flew a total of 1435 "combat" sorties, and it is reported that at least one of them received battle damage. All three A-models wore the standard Southeast Asia camouflage colors and markings, but with no unit designations of any kind. In 1973, 56-0519 was given or loaned to the South Vietnamese Air Force, and it became one of the spoils of war on April 30, 1975. The last reliable sighting was in April of 1999, which reported her corroded and derelict at Tan Son Nhut Airport, Ho Chi Minh City." http://www.awra.us/gallery-jan05.htm



PICTURED: The Cold Cloud Modification System, successfully used in cold-fog mitigation; China Lake was for many years a world leader in weather modification for drought relief (GROMET), hurricane abatement (Cyclops, Stormfury), fog abatement (Foggy Cloud), and rainfall enhancement for military purposes (Project Popeye).

References http://en.wikipedia.org/wiki/Operation Popeye

http://www.awra.us/gallery-jan05.htm

Operation Popeye BUSTED!

Reporter Jack Anderson



Saw a secret memo

Operation Popeye first came to public light in March 1971, when reporter Jack Anderson published a story based on a secret 1967 memo from the Joint Chiefs of **Staff to President** Johnson. The memo read: "Laos operations -Continue as at present plus Pop Eye to reduce the trafficability [sic] along infiltration routes & Authorization requested to implement operational phase of weather modification process previously successful tested and evaluated in some area".

Senator Claiborne Pell



Held secret hearings

Operation Popeye first came to public light in March 1971, when reporter Jack Anderson published a story based on a secret 1967 memo from the Joint Chiefs of Staff to President Johnson. The memo read: "Laos operations – Continue as at present plus Pop Eye to reduce the trafficability [sic] along infiltration routes & Authorization requested to implement operational phase of weather modification process previously successful tested and evaluated in some area". (US Senate, Subcommittee on Oceans and International Environment; 26 July 1972; p. 5). Mr DOOLIN: I speak in a personal capacity and not in my official capacity, Mr. Chairman. I have been in this job for 5 years, and I didn't have this clearance even though Southeast Asia is in my area of responsibility in the Office of the Secretary of Defense. The first I learned of it was, as the result of a Jack Anderson column, and I made inquiries at the time - simply for my own edification... [US Senate, Subcommittee on Oceans and International Environment; 20 March 1972; p. 111] https://climateviewer.files.wordpress.com/2016/11/top-secret-hearings-before-thesubcommittee-on-oceans-and-international-environment-march-20-1974enmod.pdf

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http://www.nbcnews.com/id/39157420/ns/politics/t/nixon-plot-againstnewspaper-columnist-detailed/

Weather Warfare Politics Weather modification meets full disclosure



Laird wasn't the only official whose 1972 weather modification testimony was untruthful. Benjamin Forman, a senior Department of Defense lawyer, reiterated Laird's denial later that year: **"We have not, as Secretary Laird has previously said, ever engaged in weather modification activities in Northern Vietnam."** At the same hearing, the Deputy Director of the US Arms Control and Disarmament Agency had similar difficulties. Asked by Senator Pell if rainmaking projects had been approved by Laos and Thailand, Philip Farley replied: **"I don't wish even to admit, sir, that there were such projects."**

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[US Senate, Subcommittee on Oceans and International Environment; January 25, March 20, 1972]

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http://www.vietnam.ttu.edu/virtualarchive/items.php?item=2390601002 in three parts. Combined by Jim Lee of ClimateViewer News https://climateviewer.com/ and uploaded to Scribd for public domain consumption.



http://www.gpo.gov/fdsys/pkg/STATUTE-85/pdf/STATUTE-85-Pg735.pdf – http://web.archive.org/web/20130118170030/http://uscode.house.gov/download /pls/15C9A.txt – Public Law 92-205, Sec. 1, Dec. 18, 1971, 85 Stat. 735 http://cfr.regstoday.com/15cfr908.aspx – 15 CFR 908 — "Maintaining Records and Submitting Reports on Weather Modification Activities"

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http://www.gpo.gov/fdsys/pkg/STATUTE-90/pdf/STATUTE-90-Pg2359.pdf Public Law 94-490 94th Congress "AN ACT To authorize and direct tlie Secretary of Commerce to develop a national policy on weather modification, and for other purposes" 1976

<u>https://www.law.cornell.edu/uscode/text/15/chapter-9A</u> – 15 U.S. Code Chapter 9A – "Weather Modification Activities or Attempts; Reporting Requirement"

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They signed a piece of paper.



State Department representative Herman Pollack told the Congress at a 1972 hearing that: "the administration would not use techniques for climate modification for hostile purposes even should they become available"

"Primarily the work is aimed at giving the US Navy and the other armed forces, if they should care to use it, the capability of modifying the environment, to their own advantage, or to the disadvantage of an enemy.

We regard the weather as a weapon. Anything one can use his way is a weapon and the weather is as good a one as any."

(Quoted in: US Senate, Subcommittee on Oceans and International Environment; 26 July 1972; p. 22, emphasis added).

https://climateviewer.com/2016/01/22/1978-enmod-convention-on-the-prohibition-of-military-and-other-hostile-use-of-environmental-modification-techniques/



Governments full accounting of all weather modification activities in the United States of America as a result of ENMOD.

"The report was prepared at my request by the Congressional Research Service under the direction of Dr. Robert Morrison, Specialist in Earth Sciences, Science Policy Research Division. We thank Dr. Morrison and the others involved in the study for their extremely thorough and scholarly report. Substantial material on almost all areas of weather modification are included and the report will provide the committee with an excellent reference source for future deliberations on the subject"

https://archive.org/details/weatificat00unit

https://www.scribd.com/doc/275655074/WEATHER-MODIFICATION-PROGRAMS-PROBLEMS-POLICY-AND-POTENTIAL

			Federal	Nonfederal	Total	
	(a)	Modification days (cumulative)	147	1,091	1,238	
Gummany of	(b)	Modification days (increase precipi- tation)	113	974	1,087	
Summary of	(c)	Modification days (hail suppression)	0	133	133	
weattier	(d)	Modification days (fog dispersal)	34	56	90	
modification	(e)	Modification days (research)	54	22	76	
Activities	(f)	Airborne apparatus operation (hours)	355	2,043	2,398	
Reported	(g)	Ground-based apparatus operation (hours)	984	14,621	15,605	
in 1979	(h)	Dry Ice (kg)	1,530	15,933	17,463	
	(i)	Silver iodide, dispensed (kg)	224	678	902	
	(ქ)	Liquid propane (gal)	11,077	0	11,077	
	(k)	Polyelectrolyte (kg)	0	641	641	

Cloud seeding:

4,796 hours airborne

31,210 hours ground-based

https://www.scribd.com/document/332125391/Summary-of-Weather-Modification-Activities-Reported-in-1979-NOAA


It is really weak, really

Where Are We Today? The Blue Gold Rush

"Fresh water has been dubbed "Blue Gold" in many publications as potable water will be to this century what oil was to the last century."

The Twilight Zone https://climateviewer.com/2014/02/02/blue-gold-rush-future-water-wars-using-riverstroposphere/



http://www.bloomberg.com/features/2015-cloud-seeding-india/

http://capitaldom.com/countries-are-spending-millions-to-control-the-weather-heres-why http://www.businessinsider.com/china-sets-aside-millions-to-control-the-rain-2016-7 http://www.dailymail.co.uk/travel/travel_news/article-2926736/Would-pay-100-000guarantee-sunny-wedding-Travel-company-offers-cloud-bursting-service-banish-raincouples-big-day.html

http://www.oliverstravels.com/blog/guarantee-perfect-wedding-weather-olivers-travels/?olv=sGmkd0

https://www.theguardian.com/sustainable-business/2015/mar/11/rain-free-weddings-company



http://climateviewer.org/3D/



https://climateviewer.com/2013/11/08/hurricane-hacking-the-department-of-homeland-security-enters-the-weather-modification-business/



- 1. Mr. William Laska Department of Homeland Security
- 2. Dr. Edward Hume Johns Hopkins University Applied Physics Laboratory
- 3. Dr. Joe Golden National Oceanic and Atmospheric Administration
- 4. Dr. William Cotton Colorado State University
- 5. Dr. Bob Kurzeja Savannah River National Laboratory
- 6. Dr. Alan Blumberg Stevens Institute of Technology
- 7. Dr. Jerald Carithers University of Southern Mississippi
- 8. Dr. William Woodley Woodley Weather Consultants
- 9. Dr. Jay Hobgood Ohio State University
- 10. Dr. Moshe Alamaro Massachusetts Institute of Technology
- 11. Dr. Stephen Salter University of Edinburgh
- 12. Dr. Daniel Rosenfeld Hebrew University
- 13. Dr. Mark DeMaria National Oceanic and Atmospheric Administration
- 14. Dr. Edward Walsh National Oceanic and Atmospheric Administration
- 15. Dr. Isaac Ginis University of Rhode Island
- 16. Dr. John Latham University Corporation for Atmospheric Research
- 17. Dr. Patrick Fitzpatrick Mississippi State University
- 18. Dr. Sundararaman Gopalakrishnan National Oceanic and Atmospheric Administration
- 19. Ms. Paula Lantzer Department of Homeland Security
- Not Pictured: Dr. Roelof Bruintjes National Center for Atmospheric Research



Jim Lee, "US military discusses future of Weather Warfare despite ENMOD ban," November 16, 2013.

https://climateviewer.com/2013/11/16/us-military-discusses-future-of-weather-warfare-despite-enmod-ban/

The U.S. Navy proposal to develop new weather modification weapons, Code C2741 (Warhead Development Branch) NAWCWPNS, China Lake, California, April 1994, https://www.scribd.com/doc/256210692/Weather-Modification-US-Navy-FOIA-Non-Lethal-Warfare-Proposal-1994;

U.S. Air Force proposal to develop a theater-scale weather modification system using carbon black, Phillips Laboratory (AFMC) Geophysics Directorate. <u>https://www.scribd.com/doc/184741384/Weather-Modification-Using-Carbon-Black-Phillips-Laboratory-AFMC-Geophysics-Directorate</u>

Tamzy J. House et al. "Weather As A Force Multiplier: Owning the Weather in 2025," Air Force 2025, August 1996; see page 34, Figure 5-2, "A Systems Development Road Map to Weather Modification in 2025." http://csat.au.af.mil/2025/volume3/vol3ch15.pdf



Jim Lee, "US military discusses future of Weather Warfare despite ENMOD ban," November 16, 2013.

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U.S. Air Force proposal to develop a theater-scale weather modification system using carbon black, Phillips Laboratory (AFMC) Geophysics Directorate. <u>https://www.scribd.com/doc/184741384/Weather-Modification-Using-Carbon-Black-Phillips-Laboratory-AFMC-Geophysics-Directorate</u>

Tamzy J. House et al. "Weather As A Force Multiplier: Owning the Weather in 2025," Air Force 2025, August 1996; see page 34, Figure 5-2, "A Systems Development Road Map to Weather Modification in 2025." <u>http://csat.au.af.mil/2025/volume3/vol3ch15.pdf</u>



https://climateviewer.com/2014/03/26/cloud-ionization-electric-rainmaking-laser-guided-weather-modification/

https://climateviewer.com/2014/02/02/blue-gold-rush-future-water-wars-using-rivers-troposphere/



https://climateviewer.com/2015/05/28/how-texas-stole-californias-rain/ https://climateviewer.com/2014/03/26/cloud-ionization-electric-rainmaking-laser-guidedweather-modification/

https://climateviewer.com/2014/02/02/blue-gold-rush-future-water-wars-using-rivers-troposphere/



https://climateviewer.com/2014/03/26/cloud-ionization-electric-rainmaking-laser-guided-weather-modification/

https://climateviewer.com/2014/02/02/blue-gold-rush-future-water-wars-using-rivers-troposphere/

WMO Expert Team on Weather Modification Statement on Ionizers

http://www.wmo.int/pages/prog/arep/wwrp/new/documents/WMR_documents.final_27_ April_1.FINAL.pdf

http://www.wmo.int/pages/prog/arep/wwrp/new/weathermod_new.html



"Terrorism, Weapons of Mass Destruction, and U.S. Strategy" Sam Nunn Policy Forum – April 28, 1997 University of Georgia, Athens, Georgia. http://www.fas.org/news/usa/1997/04/bmd970429d.htm



https://climateviewer.com/haarp/ https://climateviewer.com/2014/10/18/ionospheric-heaters-how-haarp-really-works/



http://climateviewer.org/3D/index.html?layersOn=haarp&baseLayer=Bing%20Aerial&lat=-145.15053&lon=62.39722&zoom=4544.98&date=2016-11-28 https://climateviewer.com/haarp/

https://climateviewer.com/2014/10/18/ionospheric-heaters-how-haarp-really-works/



https://climateviewer.com/2015/01/01/ionospheric-heaters-destroying-van-allen-belts/

Satellite Threat Due to High Altitude Nuclear Detonation – Eisenhower Institute –

Papadopoulos-Presentation 280369

https://www.scribd.com/doc/134612875/Satellite-Threat-Due-to-High-Altitude-Nuclear-Detonation-Eisenhower-Institute-Papadopoulos-Presentation-280369

High-Voltage Orbiting Long Tether (HiVOLT): A System for Remediation of the Van Allen Radiation Belts

It remains uncertain as to whether removing these radiation belts might have unintended consequences.

"At present **we don't think there is any downside to not having them**, but as with all things geophysical, it is hard to know all the complex interconnections between the various systems and estimate the full effect of removing the radiation belts completely," Bortnik says.

"That's the most any of us can really say at the moment."

Can We Hack the Van Allen Belts?." http://spectrum.ieee.org/aerospace/astrophysics/hacking-the-van-allen-belts



http://spp.astro.umd.edu/SpaceWebProj/Invited%20Talks/Active%20Experiments-2013.pdf

 Using Active Experiments to Probe Geospace, Dennis Papadopoulos, University of Maryland



<u>http://spp.astro.umd.edu/SpaceWebProj/Invited%20Talks/Active%20Experiments-2013.pdf</u> – Using Active Experiments to Probe Geospace, Dennis Papadopoulos, University of

Maryland



<u>http://spp.astro.umd.edu/SpaceWebProj/Invited%20Talks/Active%20Experiments-2013.pdf</u> – Using Active Experiments to Probe Geospace, Dennis Papadopoulos, University of

Maryland



<u>http://spp.astro.umd.edu/SpaceWebProj/Invited%20Talks/Active%20Experiments-2013.pdf</u> – Using Active Experiments to Probe Geospace, Dennis Papadopoulos, University of Maryland



https://climateviewer.com/2014/10/22/haarp-boat-ionospheric-heaters-go-mobile/ http://spp.astro.umd.edu/SpaceWebProj/Invited%20Talks/Barge%20Based%20ELF-2010.pdf – "On the Viability and Requirements of a Barge Based ELF System" Dennis Papadopoulos, University of Maryland, College Park, December 21, 2010



https://climateviewer.com/2014/10/22/haarp-boat-ionospheric-heaters-go-mobile/ http://spp.astro.umd.edu/SpaceWebProj/Invited%20Talks/Barge%20Based%20ELF-2010.pdf – "On the Viability and Requirements of a Barge Based ELF System" Dennis Papadopoulos, University of Maryland, College Park, December 21, 2010 http://www.ipr.umd.edu/sites/default/files/documents/Papadopoulos%20.pdf – "Mobile HF Sources Research & Applications" Physics of Ionospheric Modification, Theory & Laboratory Experiments, Dennis Papadopoulos – Gennady Milikh, University of Maryland, College Park, AFOSR MURI KickOff March 12, 2014



https://climateviewer.com/2014/04/01/haarp-lucy-sky-diamonds/

ANGELS Proposal https://docs.google.com/presentation/d/1vOw215pGuiob9qu0VRrc2Uumfxr8xU3s4Q2k_YNdsE/edit#slide=id.p4

Arctic Methane Emergency Group – AMEG http://ameg.me/

AMEG letter to world leaders begging for Geoengineering in 2013 http://ameg.me/images/ameg-strategic-plan.pdf

"Following the launch of AMEG's 'Strategic Plan' the above actions will be communicated to all world leaders and relevant parties in the form of an 'Essential Action Plan' to match the pending circumstances of the change in the world's weather patterns."

UK Government Response to AMEG's call for Geoengineering http://www.publications.parliament.uk/pa/cm201213/cmselect/cmenvaud/858/85804.ht m

AMEG Responds to UK Governments shunning: http://ameg.me/index.php/2-ameg/48-government-response-to-eac-based-on-non-existing-observations-says-ameg



https://climateviewer.com/geoengineering/



Terminology – Google Scholar Results

- geoengineering [25,200 results]
- weather modification [20,900 results]
- weather control [4,130 results]
- climate modification [5,310 results]
- climate engineering [2,460 results]
- climate intervention [119 results]
- ecological alteration [366 results]
- albedo modification [531 results]
- albedo enhancement [<u>1,580 results</u>]
- solar radiation management [<u>1,470 results</u>]
- stratospheric aerosol injection (SAI) [173 results]
- stratospheric aerosol geoengineering (SAG) [84 results]

https://climateviewer.com/2015/03/06/re-branding-geoengineering-climate-intervention-and-gatekeeping/



August, 1997 - Global Warming and Ice Ages – Prospects for Physics-Based Modulation of Global Change

Dr. Evil's Geoengineering Plan (part 1) by Edward Teller, Lowell Wood, Roderick Hyde. Lawrence Livermore National Laboratory.

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http://dge.stanford.edu/labs/caldeiralab/Caldeira%20downloads/Teller_etal_LLNL231636_ 1997.pdf

August 19-24, 1999 - Long-Range Weather Prediction And Prevention of Climate Catastrophes – A Status Report

Dr. Evil's Geoengineering Plan (part 2) by Edward Teller, Lowell Wood, Roderick Hyde, and Ken Caldeira. Lawrence Livermore National Laboratory.

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http://dge.stanford.edu/labs/caldeiralab/Caldeira%20downloads/Teller_etal_LLNL236324_ 1999.pdf

April 19, 2002 - Active Climate Stabilization – Practical Physics-Based Approaches to Prevention of Climate Change

Dr. Evil's Geoengineering Plan (part 3) by Edward Teller, Lowell Wood, Roderick Hyde. Lawrence Livermore National Laboratory.

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http://web.archive.org/web/20070611194418/http://www.llnl.gov/global-warm/148012.pdf http://r3zn8d.files.wordpress.com/2013/03/active-climate-stabilization-practical-physicsbased-approaches-to-prevention-of-climate-change.pdf

August, 2006 - Stratospheric sulfur injection to reflect sunlight

Albedo Enhancement by Stratospheric Sulfur Injections – A Contribution to Resolve a Policy Dilemma by Nobel prize winner Paul J. Crutzen

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http://link.springer.com/article/10.1007%2Fs10584-006-9101-y?LI=true



https://climateviewer.wordpress.com/2013/10/09/bill-gates-funds-geoengineering-studies/

Grants for (geoengineering programs) research are provided to the University of Calgary from gifts made by **Mr. Bill Gates** from his personal funds. The activities of the **Fund for Innovative Climate and Energy Research** fall outside the scope of activities of the Bill & Melinda Gates Foundation. FICER is not a Foundation project and has no relationship with it.

The fund has supported research in a wide range of areas. Some examples include: 1. understanding carbon dioxide emissions associated with international trade in goods and services;

2. developing technologies to capture carbon dioxide out of the air; and
3. climate modeling to understand possible environmental consequences of solar

radiation management



Oldham P, Szerszynski B, Stilgoe J, Brown C, Eacott B, Yuille A. 2014. **Mapping the** Iandscape of climate engineering. Phil. Trans. R. Soc. A 372, 20140065 (doi:10.1098/rsta.2014.0065) [PMC free article][PubMed] http://dx.doi.org/10.1098/rsta.2014.0065 http://www.ncbi.nlm.nih.gov/pmc/articles/PMC4240957/ http://www.ncbi.nlm.nih.gov/pubmed/25404683

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https://climateviewer.com/2013/10/09/the-silver-lining-project-cloud-making-boats-ocean-pumps-to-halt-hurricanes/

The Silver Lining Project is a not-for-profit international scientific research collaboration to study the effects of particles (aerosols) on clouds, and the influence of these cloud effects on climate systems. [1]

Research Objectives: Fill important gaps in the understanding of cloud dynamics and systems to improve climate models - Advance understanding of the climate effects of pollution in clouds - Research basic processes associated with adding natural aerosols to clouds to impact climate (e.g. Marine Cloud Brightening) - Understand the principles behind technologies for adding natural aerosols to cloud systems [2] -**This research is currently undertaken by distinguished scientists and engineers at:** Manchester University, Leeds University, NCAR, Pacific Northwest National Labs, Purdue University, University of Washington and the University of Edinburgh [3]. **Silver Lining Project** - One Market Street, Suite 3500. San Francisco, California 94105 phone: +1 (415) 681-8000 fax: +1 (415) 651-8932 Email: info@silverliningproj.org [4] [1] <u>silverliningproj.org/index.html</u> [2] <u>silverliningproj.org/research.html</u> [3] <u>silverliningproj.org/collaborators.html</u>

[4] silverliningproj.org/contact.html



https://climateviewer.com/2013/10/10/the-stratoshield-hose-to-the-sky-could-reverse-global-warming/



https://climateviewer.com/2013/10/06/geoengineering-programs-weathermodification-experiments/



https://climateviewer.com/2014/04/01/hard-look-perils-potential-geoengineering/

Geoengineering Will Kill People

"It is likely that any **SRM geoengineering intervention will create winners and losers** and some nations may always be against any intervention whatsoever."

"In any given year there are floods, droughts, heatwaves, etc. but during this field trial a fraction of these events would be attributed (rightly or wrongly, partially or fully) to the intervention. Two questions arise:"

"Could it be determined if any changes in the climate (outside of the target area) had occurred as a result of the intervention during a 10 year trial?"

"How would aggrieved nations or peoples seek reparations for perceived negative impacts (scientifically proven or otherwise)?"

- Pete Irvine, PhD student. School of Geographical Sciences, University of Bristol.

https://groups.google.com/d/msg/geoengineering/ipdLpbnXHeU/tAXDtadrNR0J



DECISION-MAKING FOR GEOENGINEERING: WHY WILL IT BE CHALLENGING? The third of a set of four Briefing Notes summarizing the findings of the Integrated Assessment of Geoengineering Proposals http://www.iagp.ac.uk/sites/default/files/IAGP_Briefing_Note_3.pdf

"The ability to accurately detect and attribute changes in the climate should be a prerequisite for implementing geoengineering"

To facilitate more accurate detection and attribution of changes in the Earth's climate, there needs to be significant improvements to the coverage and quality of observations along with the co-ordinated development of computer simulations.

To better appreciate the real-world complexities associated with geoengineering, decisionmakers should have access to interactive simulators similar to the one used in the IAGP Arctic sea ice study

Geoengineering in the Arctic: Defining the Governance Dilemma https://pdfs.semanticscholar.org/54e5/69b046742da3edd652976c1f4175319c1ff2.pdf

Deployment of SRM techniques to slow melting of the Arctic ice sheet carries significant risks and uncertainties, and thus raises multiple difficulties for its governance. One suggested technique, shooting sulfate aerosols into the stratosphere, could lead to ozone depletion (Tilmes et al. 2008). This kind of depletion "could disrupt the Asian and African

summer monsoons, reducing precipitation to the food supply for millions of people" (Robock et al. 2008). Thus, the consequences of injecting sulfate aerosols could impact 700 million inhabitants in the northern hemisphere, not merely the 4 million inhabitants of the Arctic region (Maté 2002). Scientists have also suggested injecting soot into the stratosphere, since it has comparable scattering properties to sulfate aerosols (Crutzen 2006). This, however, would result in blackening the Arctic snow and possibly, accelerated melting of the ice sheet. These technologies could also have other implications, positive or negative, that have still not been fully assessed. In order to identify these implications, these technologies will need to be deployed on a large scale.
Geoengineering Ban

that no climate-related geo-engineering activities** that may affect biodiversity take

place, until there is an adequate scientific basis on which to justify such activities and appropriate consideration of the associated risks for the environment and biodiversity and associated social, economic and cultural impacts, with the exception of small scale scientific research studies that would be conducted in a controlled setting – Convention for Biological Diversity, Climate-related Geoengineering and Biodiversity, 2012

"The U.S. is not a party to the 1992 accord and thus was NOT officially involved in the geoengineering decision."

https://www.cbd.int/climate/geoengineering/

** footnote to decision X/33 para 8 (w): Without prejudice to future deliberations on the definition of geo-engineering activities, understanding that any technologies that deliberately reduce solar insolation or increase carbon sequestration from the atmosphere on a large scale that may affect biodiversity (excluding carbon capture and storage from fossil fuels when it captures carbon dioxide before it is released into the atmosphere) should be considered as forms of geo-engineering which are relevant to the Convention on Biological Diversity until a more precise definition can be developed. It is noted that solar insolation is defined as a measure of solar radiation energy received on a given surface area in a given hour and that carbon sequestration is defined as the process of increasing the carbon content of a reservoir/pool other than the atmosphere

October 2016 https://www.cbd.int/doc/publications/cbd-ts-84-en.pdf



"We're not going to launch a big effort before Paris;"

https://climateviewer.com/2016/10/18/hillary-clinton-supports-geoengineering-err-climate-intervention/

"Our backs are against the wall and we must now start the process of preparing for geo-engineering, the letter said. "We must do this in the knowledge that its chances of success are small and the risks of implementation are great."

The Paris Agreement commits countries to a system of volutary national climate action plans, which will be reviewed every five years in a bid to keep average global temperature increases well below 2C and ideally below 1.5C. However, according to official estimates current national plans will result in temperature increases of almost 3C this century and the letter dismisses the idea far more ambitious plans and targets will be agreed in five years as "naïve". References

http://news.berkeley.edu/2015/12/14/does-the-paris-agreement-open-the-doorto-geoengineering/

http://www.slate.com/blogs/future_tense/2015/12/14/is_geoengineering_necessa ry_to_meet_paris_cop21_climate_temperature_goals.html http://www.bbc.com/news/science-environment-35109198 http://www.businessgreen.com/bg/news/2441233/academics-call-forgeoengineering-preparation-in-wake-of-paris-agreement-s-deadly-flaws

Geoengineering Is Already Happening

"The emissions and the climate change that we're causing with that is already a massive experiment on our world that we don't really know the outcome of. So I don't think we should start another set of experiments and go into geoengineering. I think we should get our act together and reduce our emissions." <u>U.N. Assistant Secretary-General Janos Pasztor</u>

http://www.weather.com/news/climate/news/geoengineering-paris-climate-conference-talks



http://climateviewer.org/3D/index.html?layersOn=MODIS_Terra_CorrectedReflecta nce_Bands367&baseLayer=Dark%20Matter&lat=-130.45279&lon=37.51724&zoom=1099418.71&date=2013-01-30



http://www.dailymail.co.uk/sciencetech/article-1229857/How-16-ships-create-pollution-cars-world.html

http://newatlas.com/shipping-pollution/11526/

http://www.industrytap.com/worlds-15-biggest-ships-create-more-pollution-than-all-the-cars-in-the-world

Geoengineering Is Already Happening "ARTIFICIAL CLOUDS" – Contrail Cirrus

A case study of the radiative forcing of persistent contrails evolving into contrailinduced cirrus March 20, 2009



The pictures show satellite thermal images of the evolving contrail. This was from a case study published by Jim Haywood and colleagues in JGR <u>doi:10.1029/2009JD012650</u>.

http://onlinelibrary.wiley.com/doi/10.1029/2009JD012650/abstract



https://climateviewer.com/2014/11/05/contrails-geoengineering-single-fuel-concept/

https://climateviewer.com/chemtrails/

https://climateviewer.com/2016/09/16/the-chemtrail-conspiracy-bombshell-secret-agenda-explained/

Trace Element and Polycyclic Aromatic Hydrocarbon Analyses of Jet Engine Fuels: Jet A, JP5, and JP8: http://www.dtic.mil/cgi-bin/GetTRDoc?AD=ADA396143

<u>Spray Visualization of Alternative Aviation Turbine Fuel embedded with Metallic</u> <u>Nanoparticles</u>

http://www.psfvip10.unina.it/Ebook/web/papers/110_PSFVIP10.pdf

<u>Energetic Nanoparticles as Fuel Additives for Enhanced Performance in Propulsion</u> <u>Systems</u>

http://etd.lsu.edu/docs/available/etd-07132012-105303/unrestricted/SKarmakar_Disstn_final3.pdf

Reduction of emissions and fuel consumption in a compression ignition engine using nanoparticles

Nanoparticles increase biofuel performance

http://www.bioline.org.br/pdf?st15211

Why add nanoparticles? The idea, says lead author R. B. Anand, an associate professor of mechanical engineering at the National Institute of Technology in Tiruchirappalli, India, is that because of their high surface-to-volume ratio, the nanoparticles—which, in the study, had an average diameter of 51 billionths of a meter—have more reactive surfaces, allowing them to act as more efficient chemical catalysts, thus increasing fuel combustion. The presence of the particles also increases fuel—air mixing in the fuel, which leads to more complete burning.

In the study, Anand and co-author J. Sadhik Basha first used a mechanical agitator to create an emulsion consisting of **jatropha biodiesel (a fuel derived from the crushed seeds of the jatropha plant), water, and a surfactant, then blended in different proportions of alumina nanoparticles.** In addition to outperforming regular biofuel, the nanoparticle-spiked fuels produced significantly lower quantities of nitrogen oxide and carbon monoxide gases, and created less smoke.

The researchers are now testing other types of nanoparticles, including hollow carbon nanotubes, and investigating the effects of nano-additives to engine lubrication and cooling systems. One obstacle to the application of this kind of nanotechnology is the high cost of nanoparticle production, says Anand—who also cautions

that nanoparticles "should be used judiciously," because they tend to "entrain into human bodies."

Read more at: <u>http://phys.org/news/2011-04-nanoparticles-biofuel.html</u>

Terminology – Credibility is Crucial

- Chemtrails
- Persistent Contrails
- Spreading Contrails
- Contrail Cirrus
- Contrail Induced Cloudiness
- Aviation Induced Cloudiness
- Aviation Induced Cirrus
- Induced Cirrus Cloudiness
- Man-made clouds
- Artificial Clouds

- Sky Brightening
- Ice Haze



All same thing...



VIDEO: https://www.youtube.com/watch?v=jHJgV6JQVd0

https://www.linkedin.com/in/chuck-long-97573b65 http://climateviewer.com/chemtrails/

The History of Artificial Clouds: How to Geoengineer a Planet with Jet Fuel https://climateviewer.com/2015/08/08/the-history-of-artificial-clouds-how-to-geoengineer-a-planet-with-jet-fuel/

Accidental Geoengineering? Airline traffic may help create an icy haze that's brightening U.S. skies. December 15, 2015 http://www.esrl.noaa.gov/news/2015/121515.html

Airplane Contrails May Be Creating Accidental Geoengineering http://www.smithsonianmag.com/science-nature/airplane-contrails-may-be-creatingaccidental-geoengineering-180957561/?no-ist

Jet traffic linked to ice haze http://www.bbc.com/news/science-environment-35109198

Ken Caldeira and Mick West argue over what geoengineering would look like: https://groups.google.com/d/msg/geoengineering/3tkTYsugQTw/im_1nFPyS0wJ

Sulfuric Acid from Aviation and Ship Tracks may be higher today than Geoengineering SRM would require in 2020

"25,000 metric tons of sulfuric acid to cut global warming in half after one year." – David Keith

"1990 global aviation's annual contribution to the atmospheric sulfur budget by aircraft of 2.E7 kg H2SO4 (20,000 metric tons)by 2010 Aviation emissions could had [sic] been up 110%"

"So perhaps those in the GE community who are genuinely opposed to geoengineering should revise their premises and call for research into GE with the purpose of ending this 'unintended', but failed and still ongoing experiment." – Oscar Escobar

http://geoengineeringclimateissues.blogspot.com/2013/11/h2so4-sulfuric-acid-from-aviation-may.html

https://climateviewer.com/2014/01/31/sulfuric-acid-aviation-ship-tracks-may-higher-today-geoengineering-srm-require-2020/



https://www.youtube.com/watch?v=yY1_NvWKNi8

https://climateviewer.com/2014/12/30/hate-chemtrails-act-now-earthjustice-sues-epa/ https://climateviewer.com/2015/07/26/worlds-first-epa-public-hearing-on-flight-pollutionspeak-now/

https://climateviewer.com/2015/08/09/my-speech-to-the-epa-about-flight-pollution/ https://climateviewer.com/chemtrails/

I was the only person who called the EPA demanding a hearing and Senior Policy Analyst Lucie Audette called me to try and talk me out of coming: https://www.youtube.com/watch?v=zxFhSk620dw

http://web.archive.org/web/20150906001353/http://www.epa.gov/otaq/documents/aviat ion/us-ghg-endangerment-ip-9-3-14.pdf

The Environmental Protection Agency took a step towards adding aircraft emissions to the list of regulated pollution sources. In <u>a statement</u> the EPA said it will study the issue of greenhouse gas emissions from aircraft, the first step in the regulatory process, and release its findings by next April. **If the agency finds airline emissions to be a risk to public health or the environment, it will begin the process of crafting rules.** The rules would make airplanes subject to carbon emissions guidelines in a process similar to the one currently underway for vehicles and power plants. https://thinkprogress.org/breaking-epa-to-limit-greenhouse-gases-from-airplanes-32e27fccf147

http://www.biofuelsdigest.com/bdigest/2016/07/31/white-house-releases-federalalternative-jet-fuel-research-and-development-strategy/

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Geoengineering/ENMOD Solution

Verification

and

Transparency

The Clarity Clause



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