

IONOSPHERIC HEATERS



SPACE WEATHER CONTROL AND GEOPHYSICAL WARFARE

By Jim Lee of ClimateViewer.com and WeatherModificationHistory.com

What is an lonospheric Heater?

"Powerful high frequency (HF)
transmitter (2 to 10 MHz) that induces
controlled temporary modification to
the electron temperature at desired
altitude"

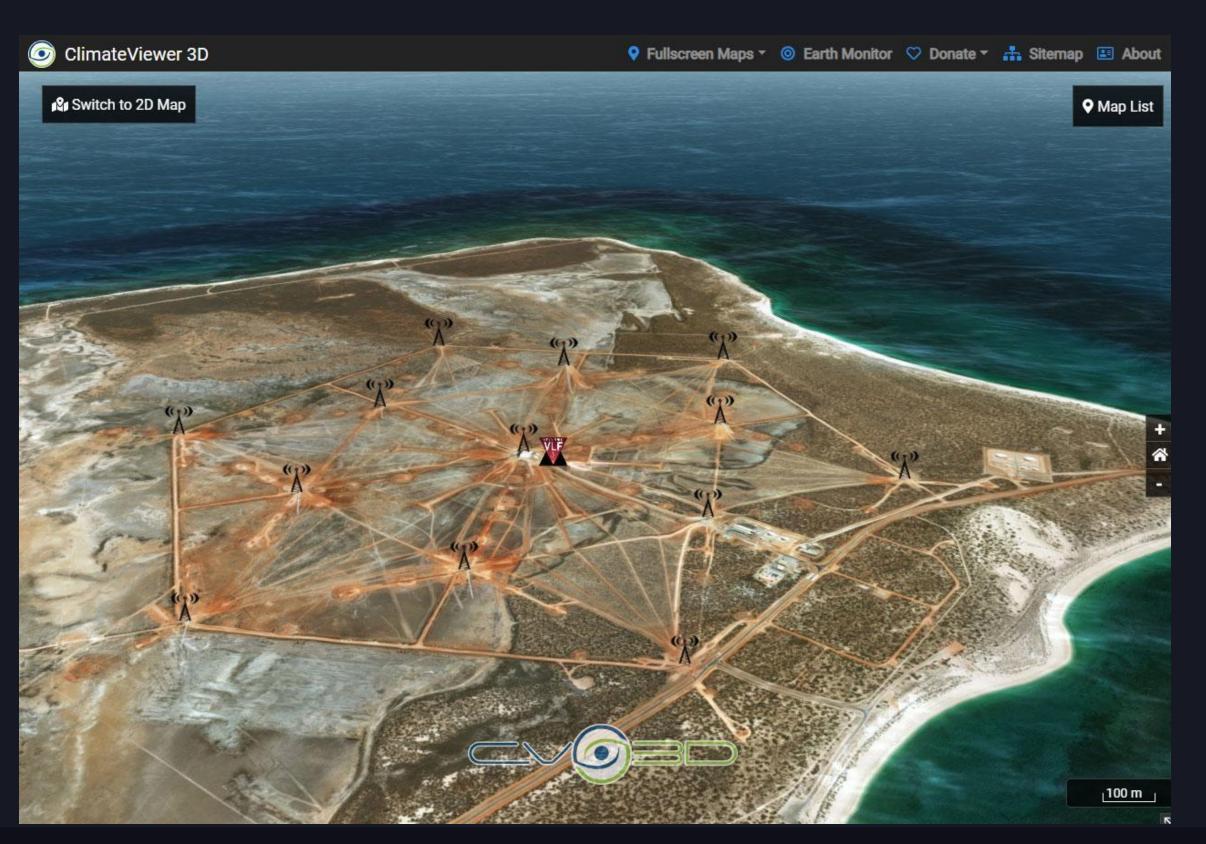




SPACE WEATHER CONTROL AND GEOPHYSICAL WARFARE

What is an lonospheric Heater?

Harold E. Holt Naval Station - North West Cape, Exmouth, Australia - Frequency: 19.8 kHz at 2,000,000 Watts DIRECTLY TRANSMITS VERY LOW FREQUENCY (VLF) - IS NOT AN IONOSPHERIC HEATER

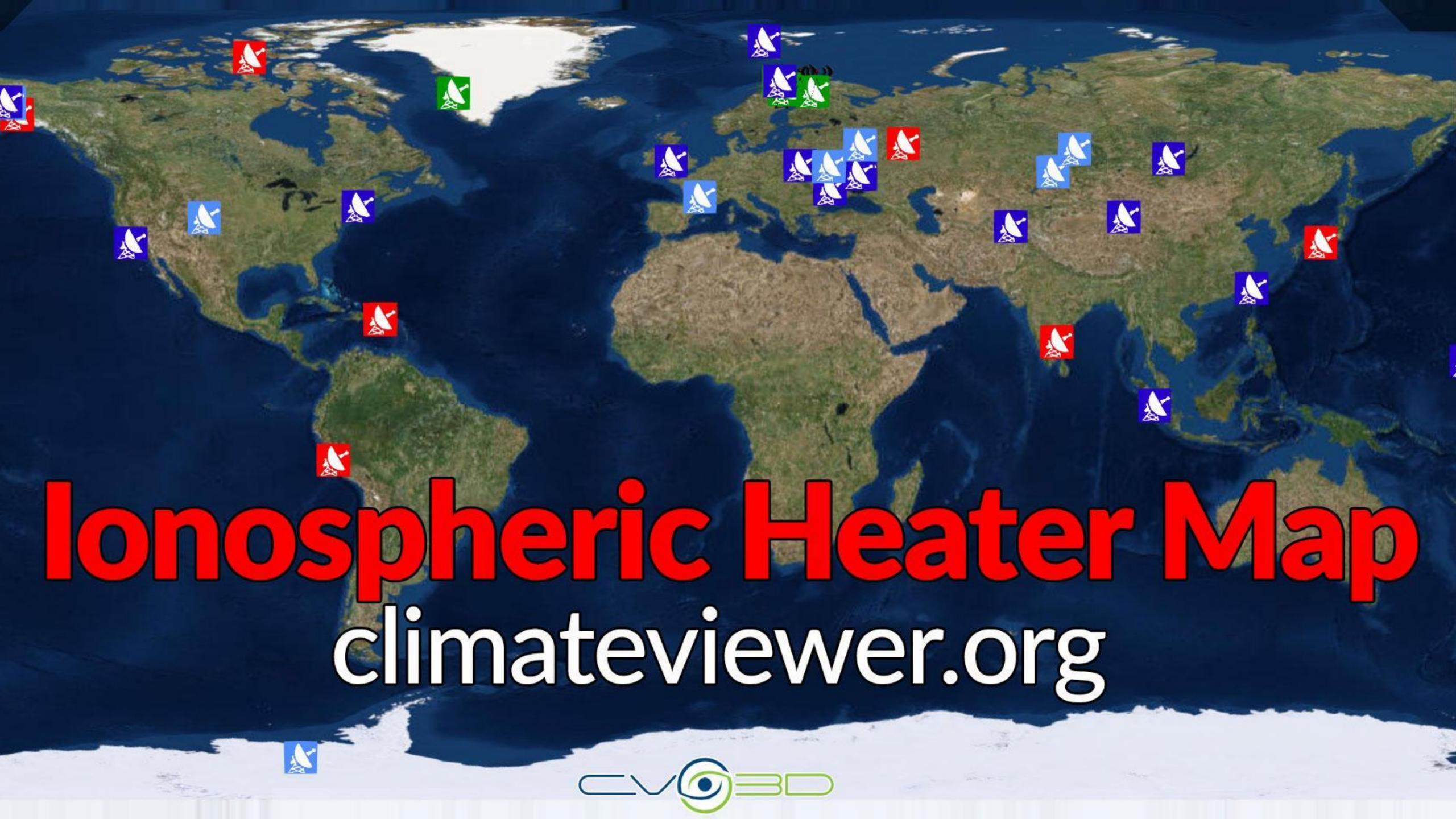


High Frequency Active Auroral Research Program (HAARP)- Frequency: 2-10 MHz at 3,600,000 Watts
USES IONOSPHERE TO CREATE EXTREMELY LOW FREQUENCY (ELF) - IS AN IONOSPHERIC HEATER

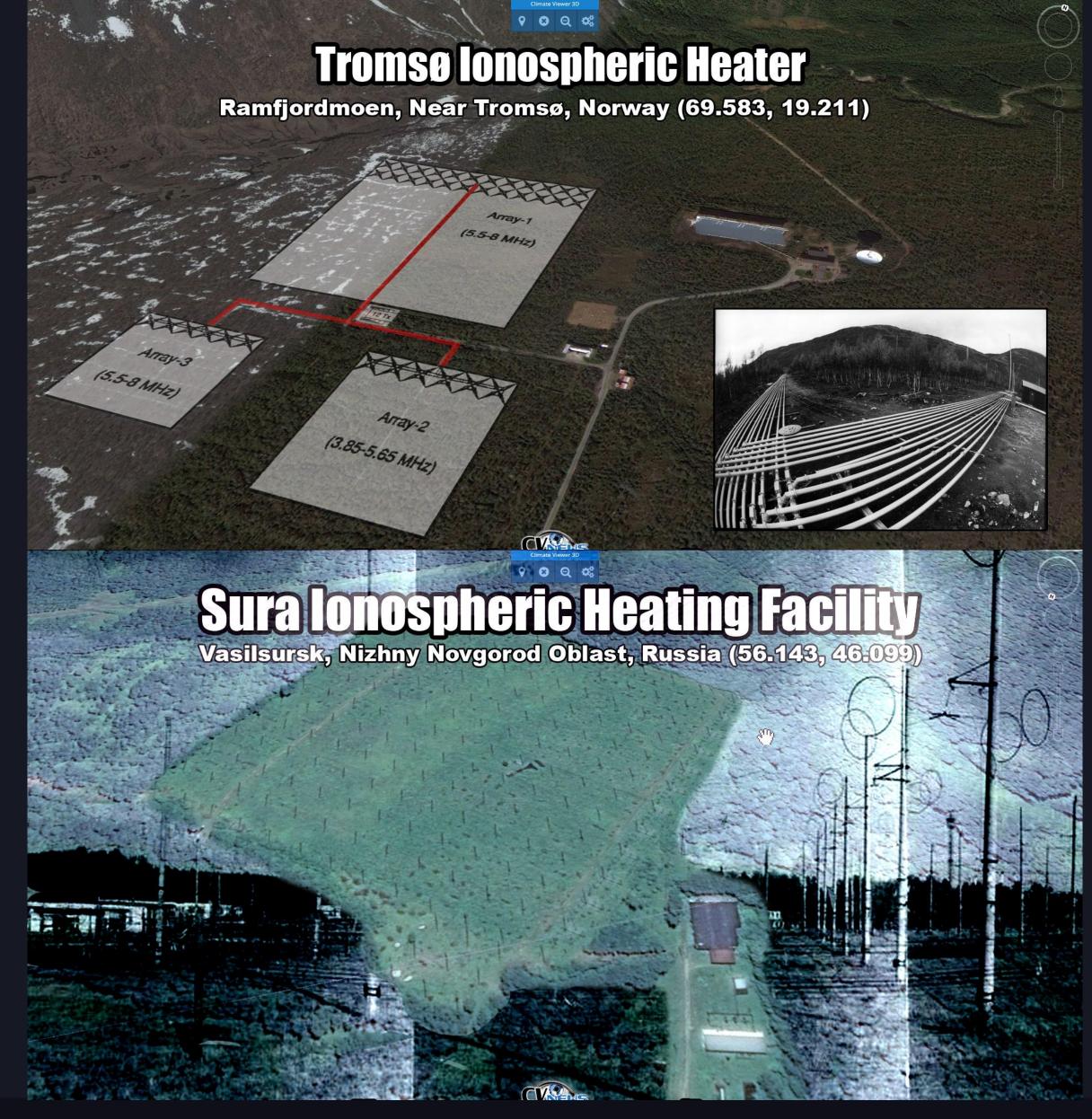




















Ionospheric Heater



EISCAT Incoherent Scatter Radars

Other Incoherent Scatter Radars



Mistoric Ionospheric Heaters







Ionosondes



Why Heat the lonosphere?

To use the sky as a

"Laboratory without Walls"

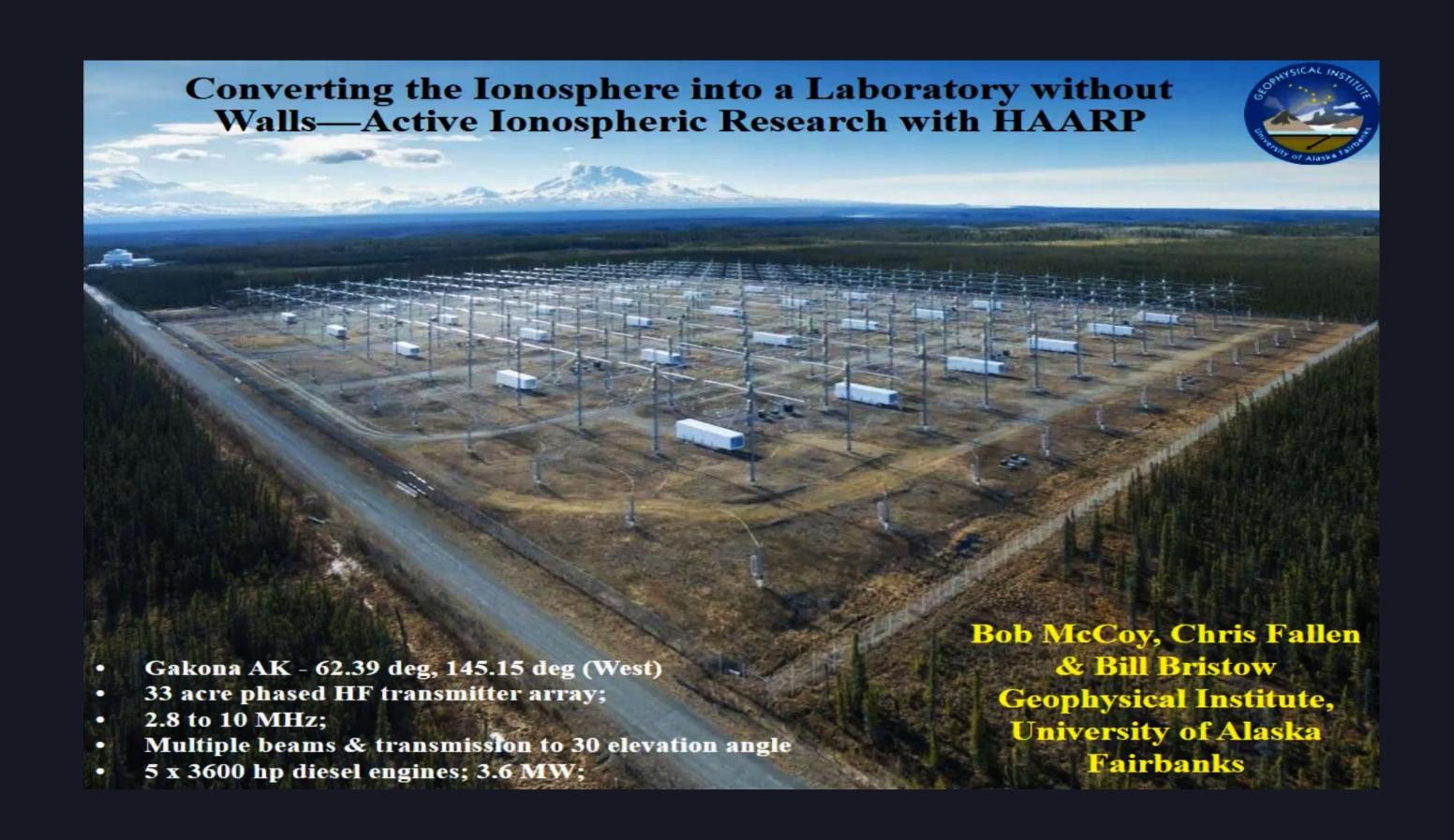
Watch video:

Converting the lonosphere

into a Laboratory without

Walls - Active lonospheric

Research with HAARP







Why Heat the lonosphere?

- Space Weather Control
 - Terrestrial Weather Modification
 - Climate Control (affect global temperature)
 - Space Warfare (Anti-Satellite and ICBMs)
- Radiation Belt Remediation & Artificial Aurora
- Create Extremely & Ultra Low Frequency (ELF and ULF) Waves
 - Signal the Apocalypse: Talking to Submarines
 - Artificial Gravity Waves & Travelling Ionospheric Disturbances
 - Mind Control (EMF Health Effects)

- Create Artificial Ionospheric Mirrors (reflect radio signals)
 - Laser Developed Atmospheric Lens
- Probe Underground Structures
- Create Artificial Earthquakes?





Space Weather Control

DEFINITION: Scientific experiments to control conditions in the region of space close to the earth, especially the presence of electromagnetic radiation and charged particles emitted by the sun, that can affect human activity and technology

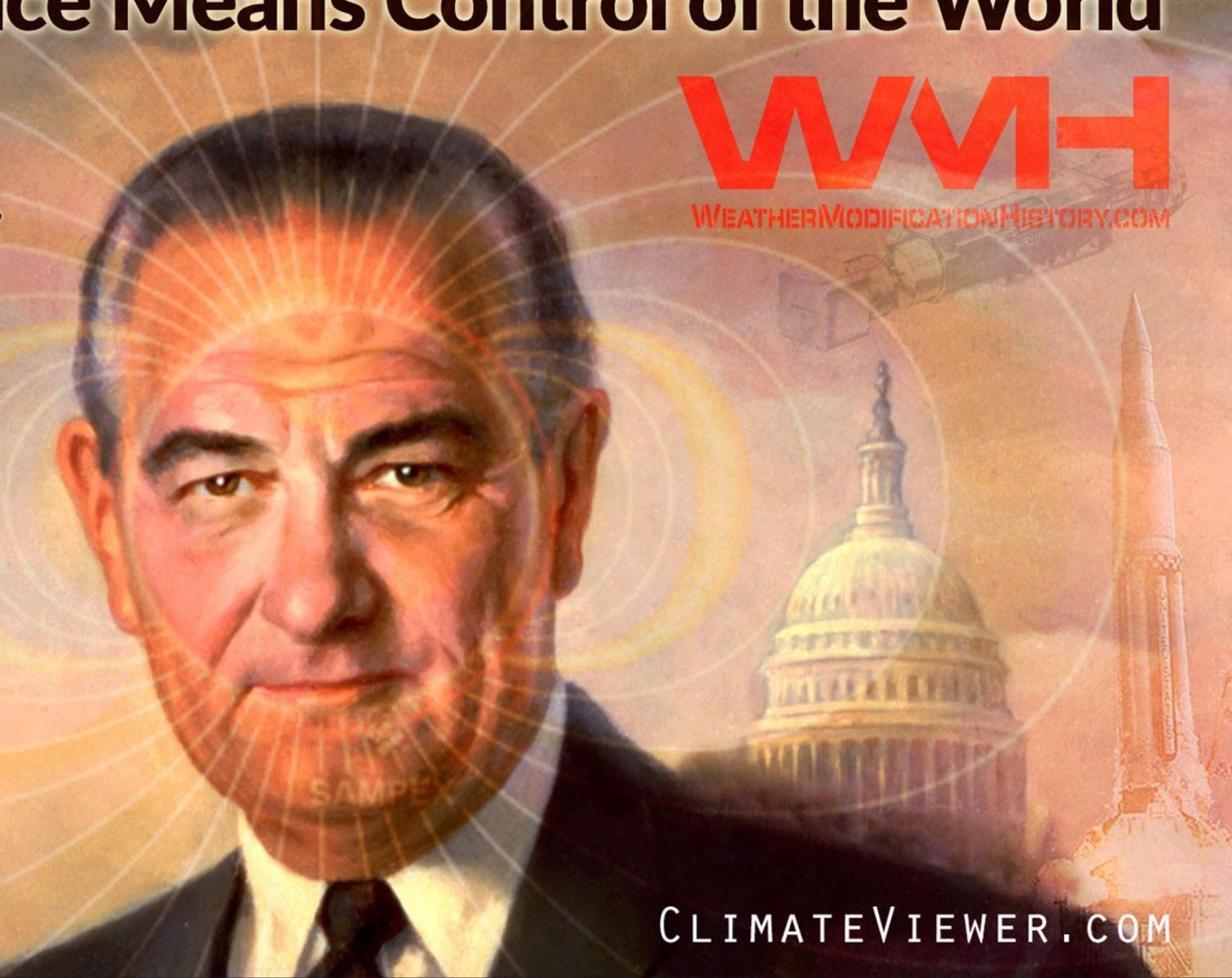




"Control of Space Means Control of the World"

"From space, the masters of infinity would have the power to control the earth's weather, to cause drought and flood, to change the tides and raise the levels of the sea, to divert the gulf stream and change temperate climates to frigid."

VP Lyndon B. Johnson



<u>Upper Atmospheric Nuclear Explosions</u>



Operation Argus (USA)

August 27 - September 6, 1958

Operation Hardtack (USA)

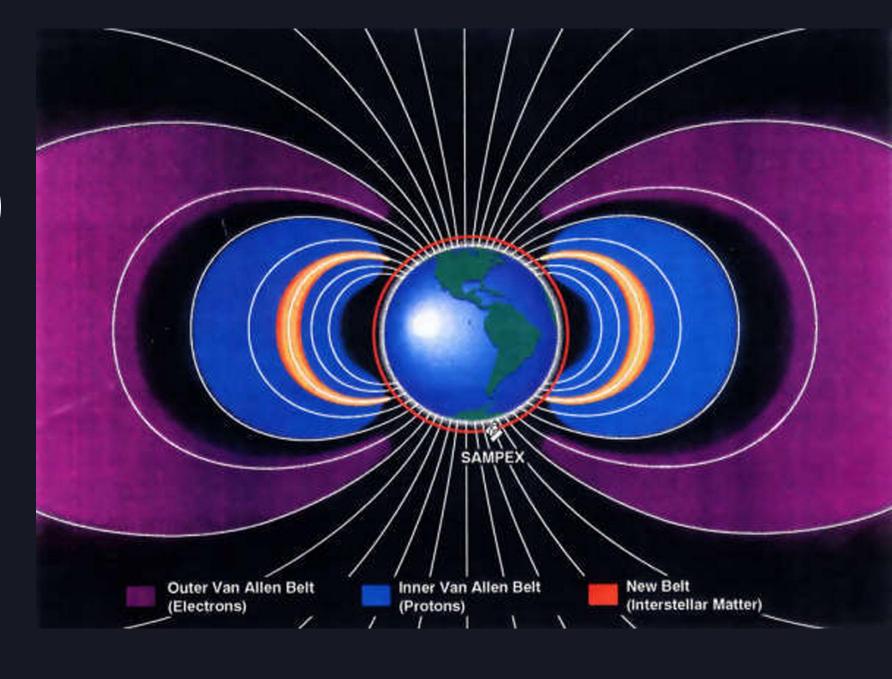
August 1-12, 1958

Starfish Prime (USA)

July 9, 1962

Operation K (Russia)

October 22 - November 1, 1962



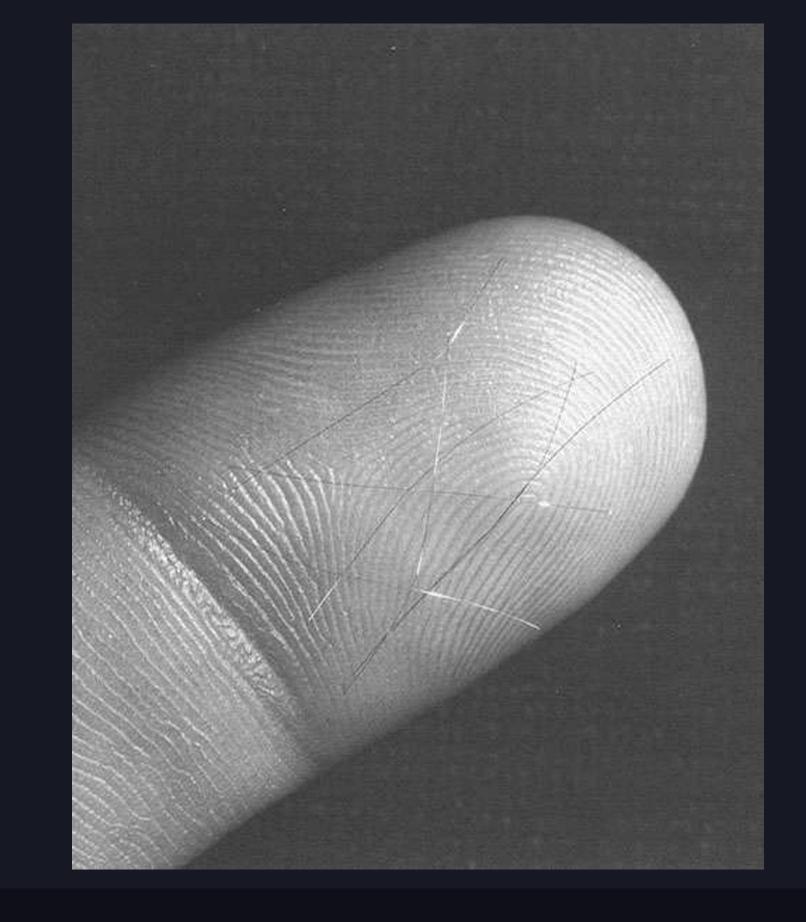


Space Weather Control (History) Project West Ford (Needles) 1961-1963

480,000,000 copper dipole antennas launched into orbit.

The West Ford Needles project was an experiment to allow long distance communications by bouncing radio waves off of a band small wires (passive dipoles) cut to a specific length. In an attempt to lay a radio-reflective ring around the world, small metal dipole needs were allowed to sublimate out of a matrix.

Two experiments were conducted, one in 1961 and another in 1963. The 1961 experiment was not successful when the needles failed to sufficiently disperse. The 1963 experiment was successful. The nature of the West Ford-Drag payload is not clear.



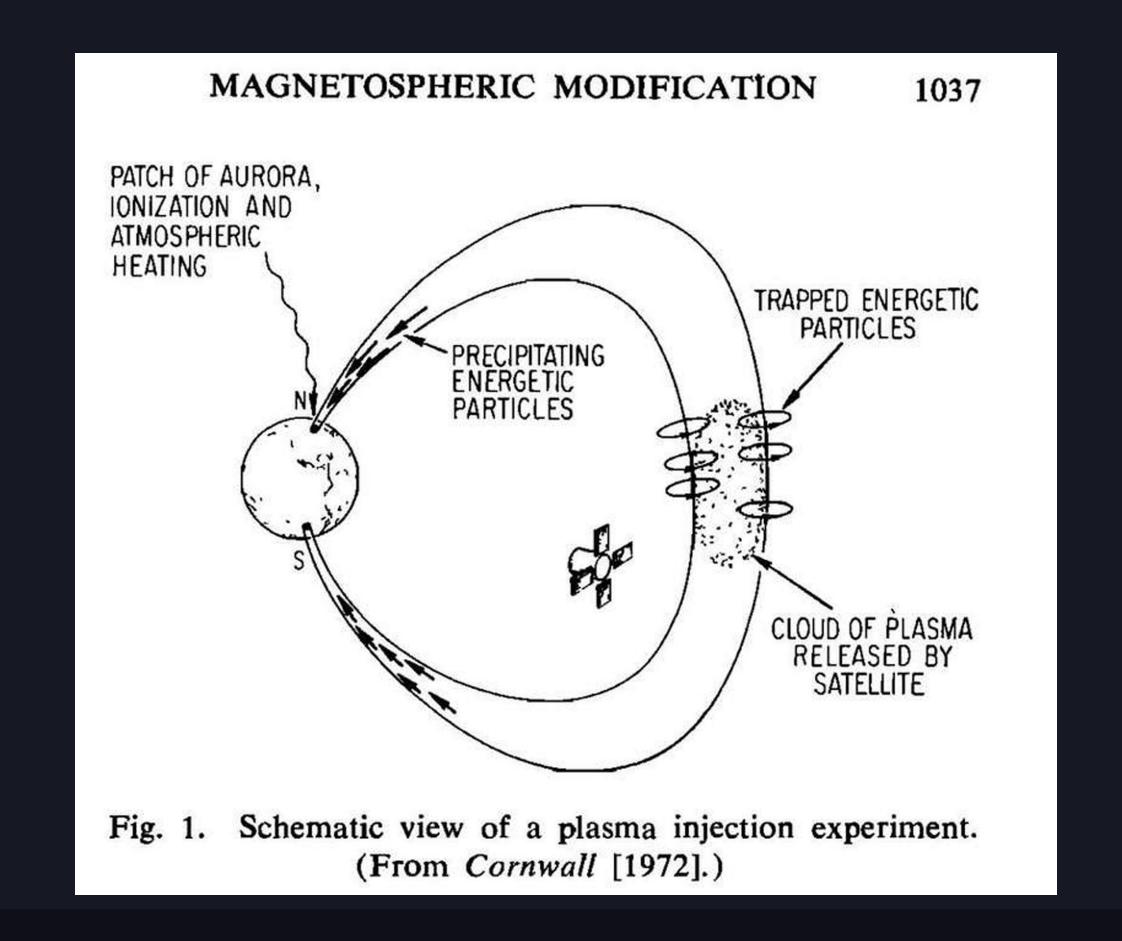






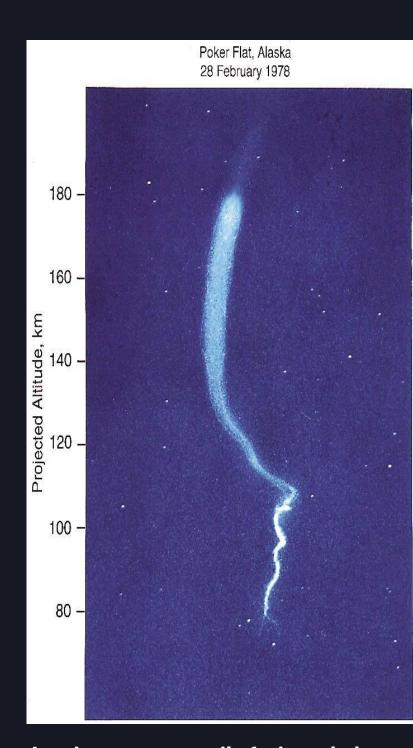
Space Weather Control (History) Seeding Plasma with Sounding Rockets and Satellites

Create an **artificial ion cloud** in interplanetary space for studying the state of the interplanetary medium ... sounding rocket experiments of May 1963





Space Weather Control (History) Seeding Plasma with Sounding Rockets and Satellites



Luminous vapor trail of tri-methyl aluminum (TMA) reveals neutral winds, shears, gravity waves, and instabilities in the high-latitude, upper atmosphere.

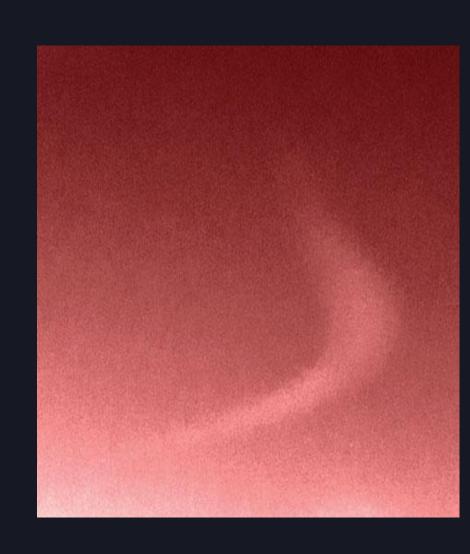
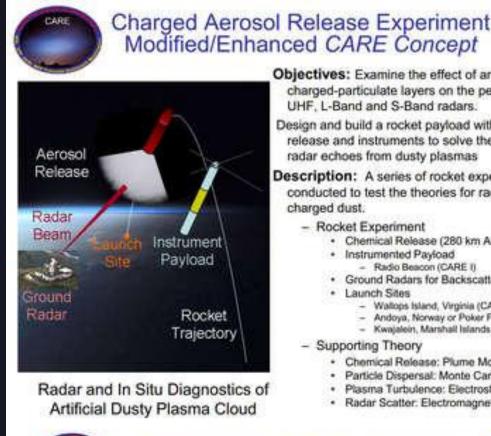


Image of a daytime lithium trail near 68 miles/110 kilometers altitude from a sounding rocket launched from Wallops Island, Virginia, in July 2013.



The cloud in the upper left hand part of the image is due to a barium release. The purple-red part is the ionized component which has become elongated along the Earth's magnetic field lines. The purple-blue cloud that surrounds the red ionized barium is a combination of the neutral barium and strontium. The blue and white trail in the lower portion of the image is from a TMA vapor trail that reveals the neutral wind trails as a function of altitude.



Objectives: Examine the effect of artificiallycharged-particulate layers on the penetration of UHF, L-Band and S-Band radars. Design and build a rocket payload with a chemical release and instruments to solve the mystery of radar echoes from dusty plasmas Description: A series of rocket experiments will be

conducted to test the theories for radar scatter from charged dust.

- Rocket Experiment

 Chemical Release (280 km Altitude, 111 kg) Instrumented Payload

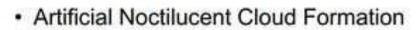
· Ground Radars for Backscatter Observations

- Radio Beacon (CARE II
- Wallops Island, Virginia (CARE I 2009)
- Andoya, Norway or Poker Flat, Alaska (CARE II) Kwajelein, Marshall Islands (CARE II Alternate)

Supporting Theory

- · Chemical Release: Plume Model
- Particle Dispersal: Monte Carlo Simulations Plasma Turbulence: Electrostatic PIC Code
- Radar Scatter: Electromagnetic Theory





- Physics of Enhanced Radar Scatter
- Radar, Lidar and Optical Diagnostics
- Satellite Measurements (AIM)
- Release from Nihka Solid Rocket Motor
- Large Concentration of Dust
- Supersonic Injection Velocity
- Experiment Enhancements
 - Ground and Ship Ionosonde Diagnostics
 - Direct Injection by Chemical Release Module



New Artificial Dust Layer Concept

Ninka Moto

Payload



Rocket

Trajectory

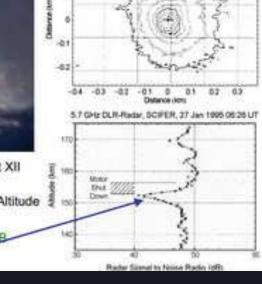




Nihka Motor Fired from 98.7 to 156.3 km Altitude

Dust Cloud Observed for 66 Minutes

5.6 GHz Radar Echoes Attenuated by 7 dB







Chemical Releases and Ionospheric Heating at Arecibo

Combined Release and Radiation Effects Satellite (CRRES) dumps chemicals in space while a ground-based microwave antenna in Arecibo, Puerto Rico heats them to modify the ionosphere. This heater was destroyed by a hurricane then rebuilt as the Enhanced HF Ionospheric Heating Instrument.

- Barium
- Strontium
- Lithium
- Calcium
- Sulfur Hexaflouride (SF6)

Chemicals Released by the CRRES:



PL-TR-94-2119

MULTIPLE INSTRUMENT STUDIES OF CHEMICAL RELEASES AND HEATING AT ARECIBO

USAF NASA

Robert C. Livingston Craig J. Heinselman

James F. Vickrey Roland T. Tsunoda

SRI International 333 Ravenswood Avenue Menlo Park, CA 94025

March 1994

Final Report July 1990 - September 1993

APPROVED FOR PUBLIC RELEASE; DISTRIBUTION UNLIMTED



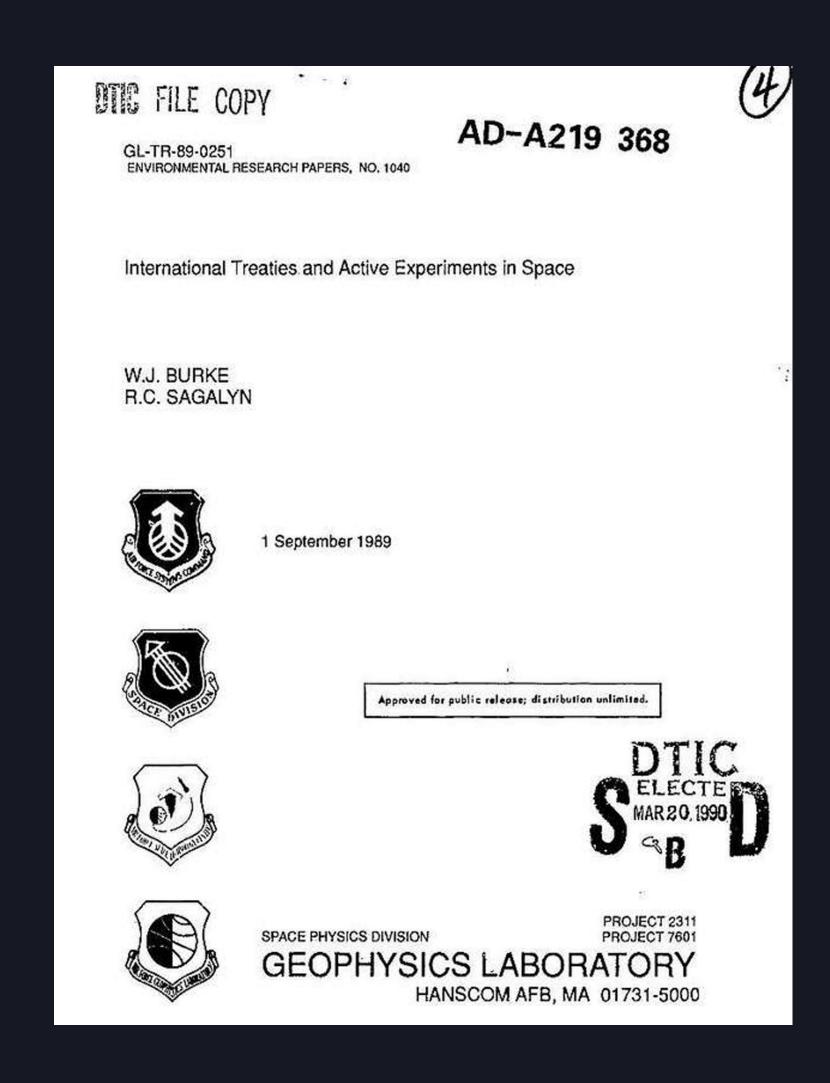
PHILLIPS LABORATORY
Directorate of Geophysics
AIR FORCE MATERIEL COMMAND
HANSCOM FORCE BASE, MASS 01731-3010





International Treaties and Active Experiments in Space

Satellite explorations of the near earth environment have vastly increased our understanding of space plasmas and their interactions with systems. A logical next step involves active experiments in which small quantities of matter and energy are injected into space environments. These experiments seek to verify tentative, scientific understanding and to identify ways to control environmental effects on systems. Serious questions may be raised regarding the legitimacy of conducting active experiments in space under United States military auspices. Here we review the treaty obligations regarding space environment modification to which the United States government has committed itself. Experiments involving the detonation of nuclear devices or interference with foreign space assets, especially national technical means to verification, are explicitly forbidden. In planned these experiments great care must be exerted so that they produce no widespread, long-lasting or severe effects on the environment. We also review active experiments programs conducted by U.S. civilian and foreign space agencies. Finally, the treaty restrictions are applied to the case of a hypothetical experiment to establish the feasibility of controlling the flux of energetic particles trapped in the earth's radiation belts. An ability to reduce trapped radiation would increase orbit selection options for future space-based surveillance systems. Keywords: Radiation belts; Wave-particle interactions; Environment modification.









Department of Defense Creates HAARP 1989-1990

Dec. 13, 1989: US Navy-Air Force meeting at Office of Naval Research to discuss mutual interests in carrying out a DoD program in the area of ionospheric modification. The need for a unique heating facility (HAARP) to conduct critical experiments relating to the potential DoD applications was identified. A Navy-Air Force-DARPA program was proposed.

Dec. 13, 1989: Navy-Air Force personnel present their proposed DoD program to DARPA and DDRE representatives at a meeting at DARPA.

Jan. 9-11, 1990: Ionospheric Modification/ELF Workshop held at NUSC, attended by personnel from government agencies, universities, and the private sector. The workshop provided an opportunity for broad-based inputs concerning research needs in ionospheric modification. In addition, potential systems applications requiring further research were defined, and the characteristics of a new, unique, HF heating facility were discussed and identified.

Jan. 25, 1990: Navy-Air Force meeting at the Geophysics Laboratory (Hanscom AFB, MA) to develop a plan to achieve DoD HAARP objectives.

Feb. 7, 1990: Written description of HAARP plans and objectives circulated to Navy, Air Force, and DARPA personnel forcoordination. Feb. 12, 1990: Meeting with DDR&E at ONR to present HAARP plan, and to discuss implementation approach.

HAARP

HF ACTIVE AURORAL RESEARCH PROGRAM

JOINT SERVICES PROGRAM PLANS AND ACTIVITIES

AIR FORCE
GEOPHYSICS LABORATORY *

OFFICE OF NAVAL RESEARCH

FEBRUARY 1990

attachment number 3

APPENDIX B

Workshop on Ionospheric Modification and Generation of ELF

rsday, 11 January 1990 (All Participants)

0830 Working Group Charters

Dr. Richard G. Brandt, ONR Dr. Herbert C. Carlson, GL

Dr. Sidney L. Ossakow, NRL

Mr. Raymond Ingram, NUSC

Dr. Herbert C. Carlson, GL

0900 Working Group Session

- ELF-Related Ionospheric Physics
- ELF Receivers
- ELF Excitation Efficiency
- ELF Antennas and Propagation
- ELF Systems Issues - High Energy Ionospheric
- Dr. Dennis Papadopoulos ARCO Power Tech, Inc. Dr. Anthony J. Ferraro Penn State University Dr. Donald A. Miller, NUSC
- High Energy Ionospheri Modification

1200 Lunch

1300 Working Group Reports

1530 Review of Facility Requirements

Dr. Richard G. Brandt, ONR Dr. Herbert C. Carlson, GL

1630 Adjourn



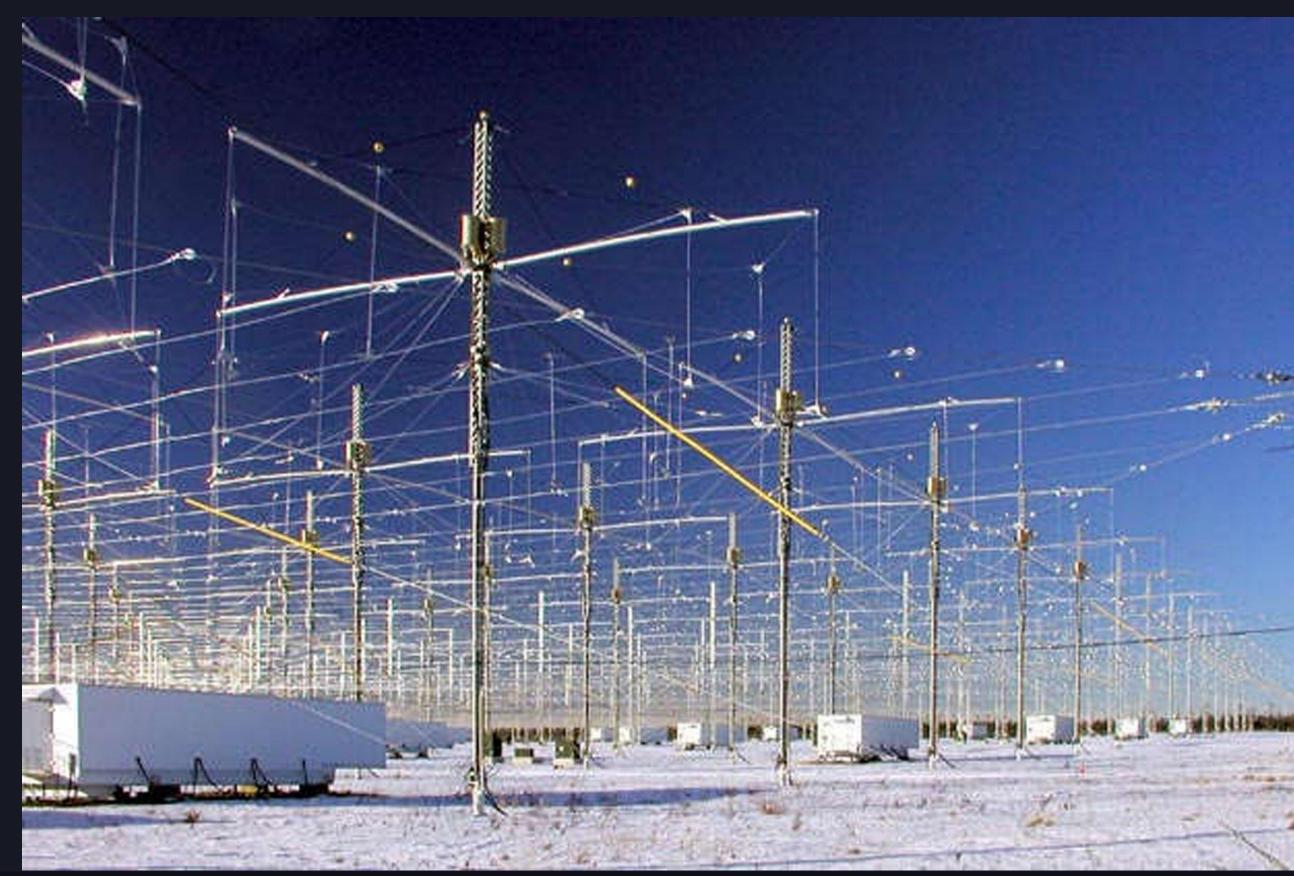


HAARP operational 1994, running at full power 2006

The HAARP facility becomes operational, with a radiated power of 960 kW. 1994

HAARP IRI is completed, with 180 towers, 72' tall, 80' apart, each with two pairs of crossed dipole antennas (2.8 to 8.3 MHz)(7 to 10 MHz), and a radiated power of 3600 kW (3.6 Megawatts).

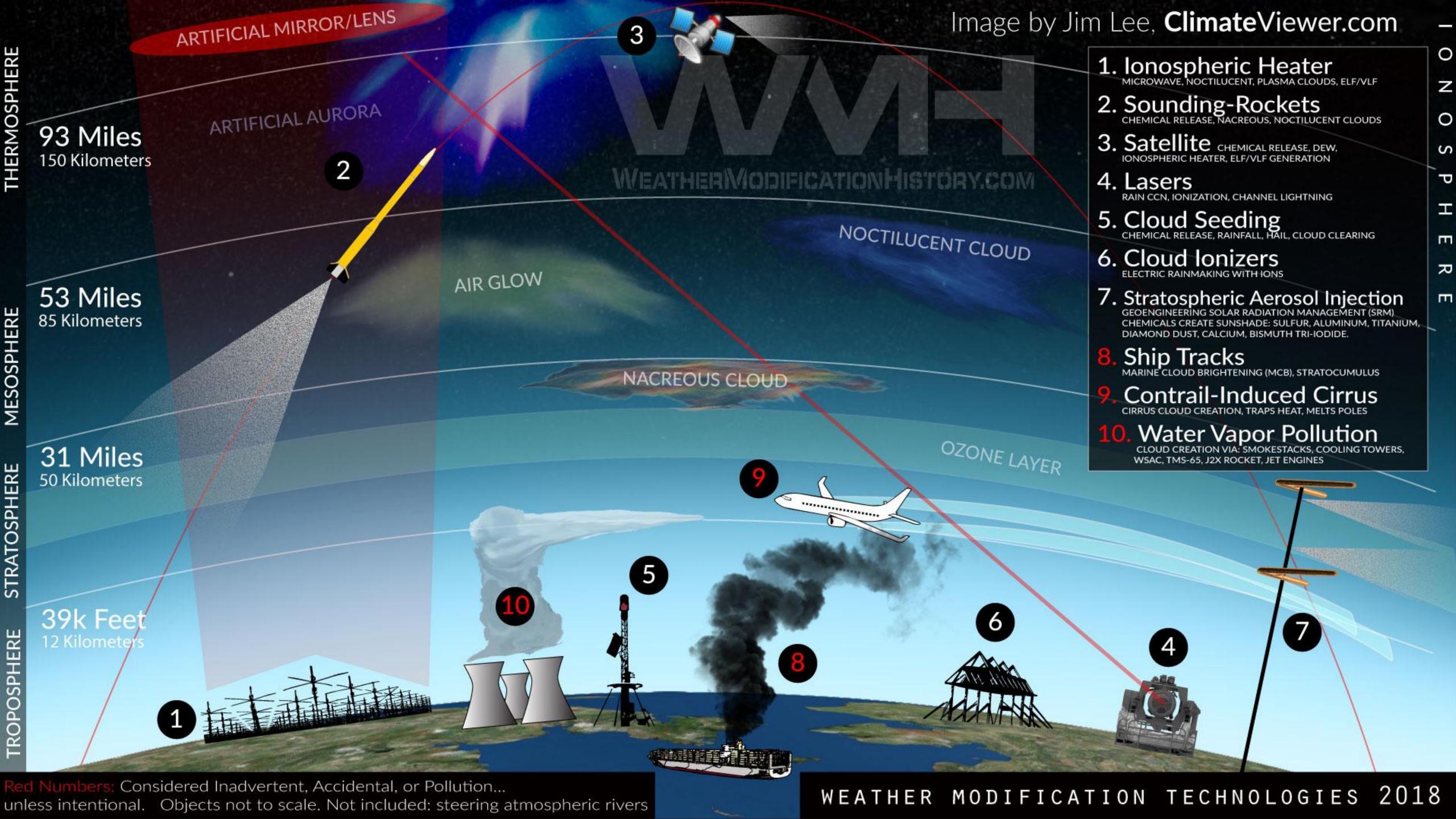












In the late 70s, experiments were performed from Ukraine using 3 x 1000 kW transmitters in parallel. The antenna consisted of 13 vertical towers in the shape of a parabola (as viewed from an airplane) with various folded dipoles strung between all these towers. It also had a very narrow bandwidth (approx. 3 MHz), and a very narrow beamwidth (approx. 5-10 degrees). As a result, the gain they obtained from this antenna was a staggering 38 dB

But instead of creating a solid area of reflection, they discovered they were actually burning a hole in the ionosphere and the signal was being shot off into space. They also noticed that the area of the ionospheric hole had an effect on approaching weather fronts. The weather fronts were being deflected around the ionospheric heated area, inadvertent weather modification

Soviet Superpower Tests Burned the Ionosphere



Global Forum

Shortwave Broadcasting

P.O. Box 1684-MT, Enid, OK 73702 wghauser@yahoo.com www.angelfire.com/ok/worldofradio

Soviet Superpower Tests Burned the Ionosphere

February 2001

In the late 70s, experiments were performed from Ukraine using 3 x would push and pull at these heated-up areas of the ionosphere and antenna was a staggering 38 dB!

The reference signal they used it against was a 1000 kW transstarted at 1000 kW; they increased power and monitored signal strength received in Washington. As the test transmitter power approached 2000 kW, they found that the received signal strength started to decrease. At 3000 kW the received signal was almost gone, but

Radiosondes and satellites were then dispatched to analyze the signal. What they found was surprising. At 3000 kW and 38 dB of antenna gain, the signal was of such power, that it was heating up a spot in the ionosphere. But instead of creating a solid area of reflec- Ludwig, Germany) tion, they discovered they were actually burning a hole in the ionosphere and the signal was being shot off into space. They also noticed that the area of the ionospheric hole had an effect on approaching weather fronts. The weather fronts were being deflected around the ionospheric heated area, inadvertent weather modification.

So they reduced the power, received signal strength improved, but not much over the reference signal. They experienced lots of fading, especially when the ionosphere was unstable, that the solar winds

1000 kW transmitters in parallel. The antenna consisted of 13 vertical move it around. They did, however, notice that as the ionospheric towers in the shape of a parabola (as viewed from an airplane) with hole decreased in size, they were also able to transmit a second signal various folded dipoles strung between all these towers. It also had a beamed to the same spot at much higher than the MUF and HPF; very narrow bandwidth (approx. 3 MHz), and a very narrow beamwidth however, the received signal was very unstable, because of the lack (approx. 5-10 degrees). As a result, the gain they obtained from this of symmetry and alignment due to the number of hops. This method had been used before, but just for one hop.

The parabolic antenna was modified to a wider beamwidth mitter with a 20 dB curtain antenna. The test signal was directed to (approx. 30 degrees) and the frequency range was expanded to 5.5the Washington / New York area. What happened was as follows. It 22.0 MHz. The result of this was a drop in gain to 29 dB, which is

> The high power transmitter program was canceled, and soon after many of the engineers were laid off, but 20-30 were provided safe passage out of the Ukrainian SSR and ended up in Alaska working on the US HAARP project. ((c) Rick Slobodian, Alberta, after visiting Ukraine, via BC-DX)

> They tried to serve North America with 3000 kW and an antenna with a gain of 38 dB, resulting in a ERP of almost 19 million kW (Kai

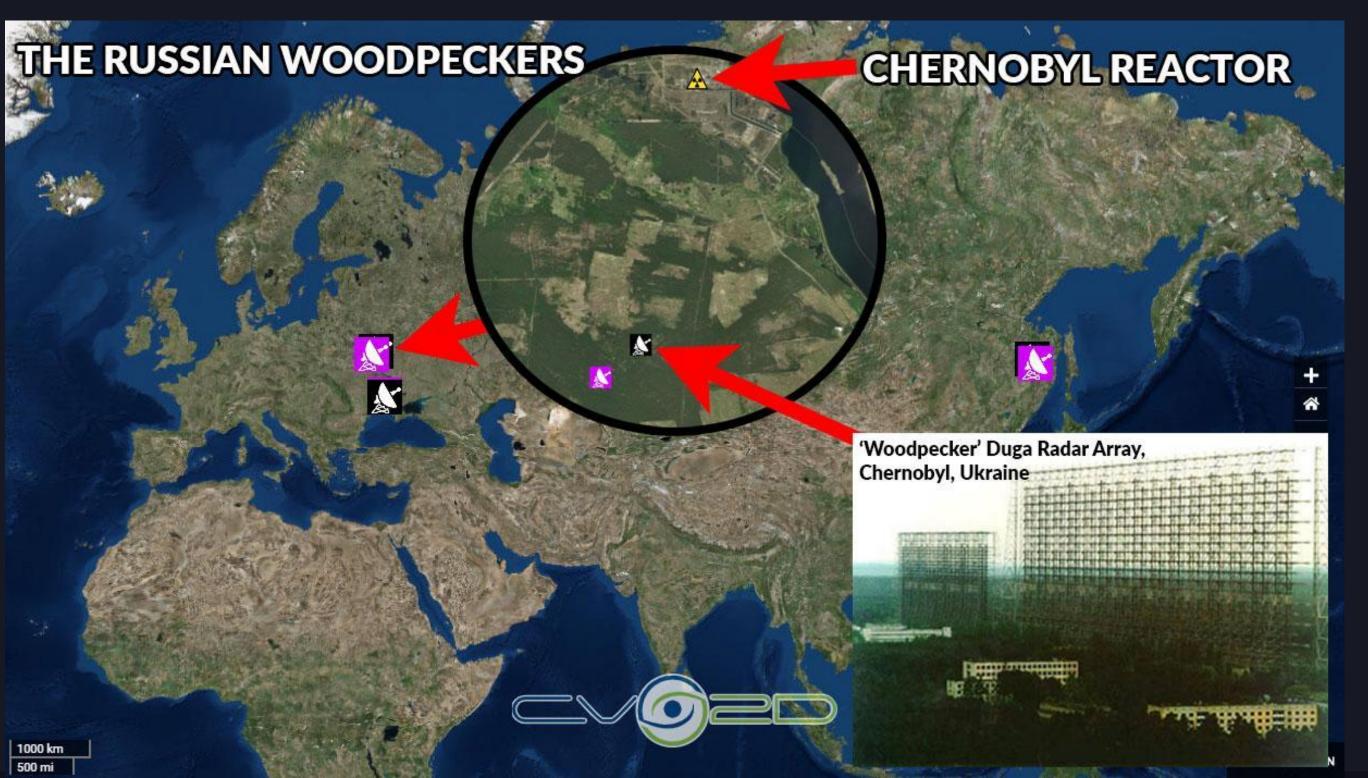
The original aim of these tests was to try to "optimize" jamming on SW (Bernd Trutenau, Lithuania, BC-DX)

Also, the widely observed USSR - Woodpecker signals originated from Ukraine territory near Poltava, as described in German magazines in the 70s. The row/fence of the giant antenna tower installations (maybe 8x8 or 16x16 dipole arrays?) could easily be seen from aircraft and spacecraft (Wolfgang Büschel, BC-DX)





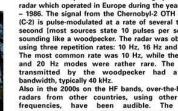
The Russian Woodpecker (DUGA-3)

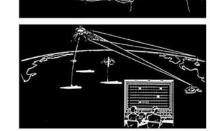


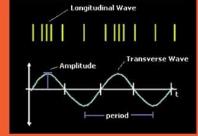
IONOSPHERIC HEATING

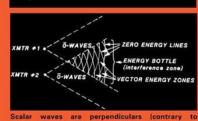
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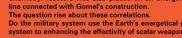


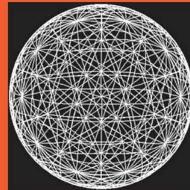


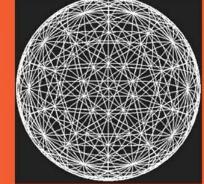








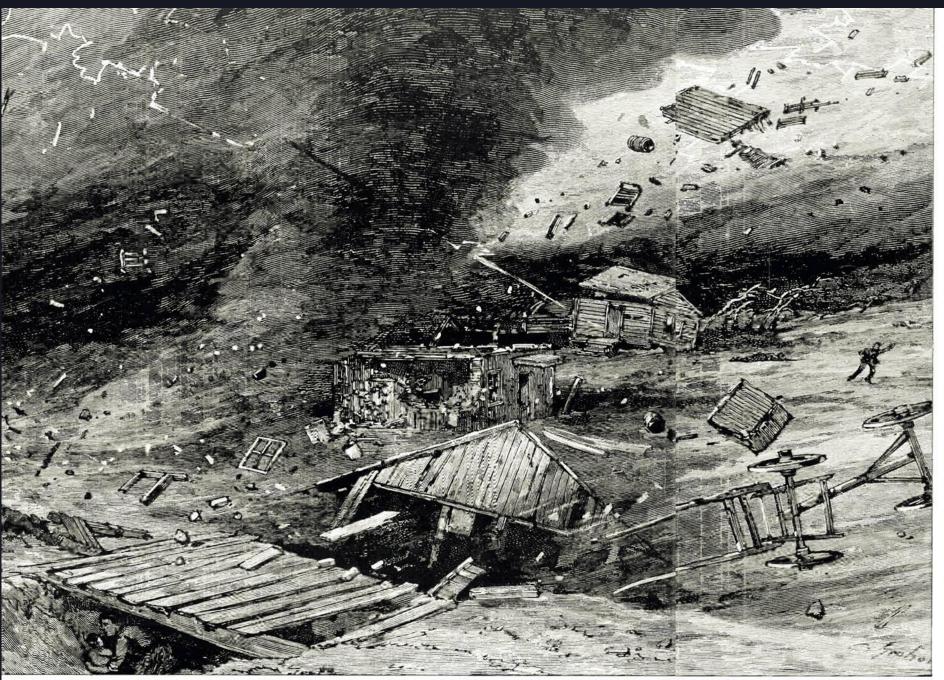


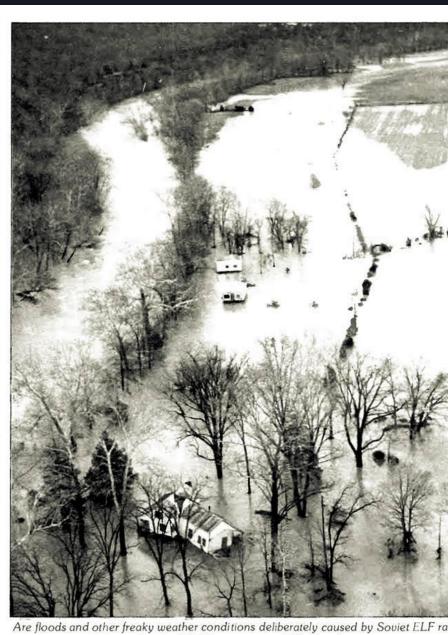




The Russian Woodpecker (part 1)

Last Christmas the low temperature records in 21 states and 60 cities were broken. ... caused the deaths of 138 persons and damaged many millions of dollars worth of crops. While this was going on, December in Europe was unseasonably warm. ... El Nino popped up unexpectedly and off schedule in 1982 and 1983.





Are floods and other freaky weather conditions deliberately caused by Soviet ELF dio signals? (Photo courtesy U.S. Army)

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Is ELF Able To Manipulate The Weather?

Has A Technique Devised By Tesla Permitted The Soviets To Alter The World's Weather?

ther? temperature's ranging as high as Notwithstanding the drain on the sources of North America, the course during December caused to

recoken. dollars worth of crops. Of course, these have not been the

of course, these have not been the only strange weather patterns noted in recent months and years. El Nino, for instance, is a disturbance in the Pacific that shows up every ten years and brings heavy rains to portions of South America. El Nino has traditionally been very limited in scope, but when it popped up unexpectedly and off schedule in 1982 and 1983. The New York

much larger than usual, with the entire east ern Pacific, from Chile to Alaska, being af fected. Even areas as distant as the Eas Coast of North America were being influenced by El Nino, and El Nino had begur earlier than any previous appearances. The Times quoted Dr. Klaus Wyrtki of the University of Hawaii as saying it was "totally un expected...it also did not follow a period ounusually strong trade winds."

mid-Pacific, but Dr. Jerome Namias of the

BY HARRY CAUL, KIL9XL

20 / POPULAR COMMUNICATIONS / June 1984 THE MONITORING MAGAZINE

THE MONITORING MAGAZINE

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The Russian Woodpecker (part 2)

Dr. Andrew Michrowski, Canadian State Department: "In the Case of the winter of 1976-77, the Soviets managed to establish terrestrial electrical resonance, and then learned how to establish relatively stable and localized ELF magnetic fields, which were able to hamper or divert the jet stream flow in the Northern Hemisphere."

He further stated, "As the columnar waves rotated clockwise, the westerly winds were sucked upwards counter-clockwise into the upper atmosphere, while a drag brough air from the upper atmosphere on the opposite side."

Dr. Michrowski postulates that the Soviet ELF signals are pulses on a frequency of 31.5 Hz and have caused "giant standing wave troughs in the Rocky Mountains" between Alberta and New Mexico, and another through the eastern United States.



The Russian Woodpecker (part 3)

Dr. Walter Orr Roberts, Aspen Institute of Colorado: "The idea of changing the conductivity of the atmosphere as a weather modification experiment is not ridiculous."

Al Beilek, American Electrical Engineer discussed that the Soviets had been experimenting with these signals on a particular frequency but it was only after a change to 31.5 Hz that El Nino's strange activity began to be observed.

The Washington Post (March 6, 1983) reported that El Nino was the worst it had been in 100 years and that equatorial trade winds, blowing from east to west, stalled.

Scripps Institution of Oceanography (San Diego, CA) was quoted in The Times as observing that its new location close to South America had caused air pressure over the Aleutians so very low that it is "unlikely to recur for another century." He noted that storm tracks had been displaced hundreds of miles southward.

The Washington Post (6 March 1983) reported that El Nino was the worst it had been in 100 years and that equatorial trade winds, blowing from east to west, stalled. Warm water normally carried towards Asia stopped, backed up, and ended up being located off South America's West Coast. Although nobody came forward with an explanation based upon past experiences, the direction of the trade winds was reversed and that caused droughts in Australia and torrential rains in Peru. By the shifting of the course of the jet stream, frigid Arctic air was shot more easterly than normal.

Radically changing weather patterns have brought serious floods to parts of the United States, and even the Utah Salt Flats have begun to flood over for the first time in memory. Several nights per week, the evening network news features bizarre weather phenomena here and abroad—floods, droughts, blizzards, heat waves—where and when they aren't supposed to be, at the wrong time of the year, and with a severity far worse that people are ready to handle.

Has this been a worldwide weather flipflop? Probably, and while we have come out on the short end of the bargain it appears that the Soviets have gained warmer winter weather for their farmers in the European USSR and the Ukraine. In fact, Warsaw Pact nations in Eastern Europe such as Romania, Poland, Czechoslovakia, and Hungary have also been experiencing warmer weather. As the jet stream blew all of the cold to North America and away from Siberia (which gives the European USSR its cold winters), it has left a sort-of vacuum into which warm air from Africa has been drawn.

Is all of this sheer coincidence? Has the planet tipped over on its axis? Is it the ozone layer, the greenhouse effect, acid rain, the arrival of Amageddon, or what? Amongst the several speculations as to its possible cause, several voices have been heard which suggest the possibilities that it is a deliberate manipulation of the world's weather by the Soviets in order to aid their troubled agricultural output, and it's all done with radio waves! A far-fetched explanation? Maybe, but nonetheless fascinating.

In 1978 Dr. Andrew Michrowski of the

FOLLOW US ON FACEBOOK WEATHER MODIFICATION HISTORY Canadian State Department commented on this technique using ELF (extremely low frequency) radio signals. He said, "In the case of the winter of 1976-77, the Soviets have managed to establish terrestrial electrical resonance, and then learned how to establish relatively stable and localized ELF magnetic fields, which were able to hamper or divert the jet stream flow in the Northern Hemisphere.

He described just how stationary fronts were established over the West Coast of North America, between Baja California and Alaska, which "permitted great diversion of air movement and the maintenance of high and low pressure areas."

Michrowski went on to observe, "In the case of the winter of 1977-1978, the Soviet scientists involved had the ingenious idea of setting up one series of standing columnar waves that extend from the westerly tip of Alaska all the way to Valparaiso, Chile. This columnar wave form was projected from just outside Angarsk, Siberia. East of this formation, the weather was drier, and west of it, precipitation was enhanced."

He further stated, "As the columnar waves rotated clockwise, the westerly winds were sucked upwards counter-clockwise into the upper atmosphere, while a drag brought air from the upper atmosphere on the opposite side.' Michrowski was not alone in his concept.

Early in 1977, some American scientists agreed that there was evidence that the Soviets were using high intensity radio signals to move Arctic air masses away from their coastline and towards North America. In 1979, Dr. Walter Orr Roberts of the Aspen Institute of Colorado was quoted as saying, "The idea of changing the conductivity of the atmosphere as a weather modification experiment is not ridiculous.

Weather is affected by the jet stream 7 to 10 miles above the Earth. Weather modification could be accomplished by regulating the movement of the electrically charged particles in the upper atmosphere. That would result in changing the direction of the jet stream to some degree.

It does appear that the Soviets have been exploring the theories and experiments of Nikola Tesla, the Slavic genius who was born in 1856 in what is now Yugoslavia. He came to the U.S. and although he advanced some brilliant concepts and produced a number of startling inventions in the fields of radio and electric power transmission, he was not fully appreciated by his contemporaries. He died a rather obscure person in 1943; however in recent time more serious attention has been paid to his ideas than during his lifetime

At the turn of the Century, Tesla proved that the Earth might be used as a conductor of electricity and would respond to electrical vibrations at a specific frequency. He demonstrated his theory by illuminating 200 electric lamps at a distance of 25 miles without any connecting wires. He suggested cluding modification of the weather.

many possible uses for his discoveries, in-

Dr. Michrowski postulates that the Soviet ELF signals are pulses on a frequency of 31.5 Hz and have caused "giant standing wave troughs in the Rocky Mountains" between Alberta and New Mexico, and another through the eastern United States.

Tesla's notes still exist even though many of them were never completed. The notebooks are on file at the Tesla Museum in Belgrade, Yugoslavia. A Canadian researcher did manage, in 1976, to locate Tesla's last known living assistant, Arthur Matthews. In Quebec, Matthews revealed that he had been asked "a lot of questions from a lot of people" including some with "Russian sounding names." This, of course, doesn't actually prove anything, except that people do seem to be taking the trouble to try to find out what Tesla was doing. Further research into the Soviet ELF sig-

nals has been conducted by an American Electrical Engineer named Al Beilek who recently delivered a lecture about natural and artificial ELF signals in the Pacific Northwest. Beilek discussed that the Soviets had been experimenting with these signals on a particular frequency but it was only after a change to 31.5 Hz that El Nino's strange activity began to be observed. He said that the first Soviet transmitting sites were in Riga (Latvian SSR) and Gomel (Byelorussia). (Gomel, it is believed, is also the source of the so-called Woodpecker OTH—over the horizon—radar pulses that have been monitored for years by shortwave listeners.) Signals from these sites were noted in 1979 in the Pacific Northwest and were on 15 and 30 Hz. Later examination of the characteristics of the signals implied a connection with Tesla's experiments and also indicated that one possible transmitting site was near the Ustyurt Plateau (between the Aral and Caspian Seas). It was also observed that when the ELF signals vanished from the airwaves for a two week period in 1980, the Northern Hemisphere's jet stream flow was normal.

ELF has been recognized by our own government as having military potentials, including for long range underwater communications. It has, however, been the cause for considerable concern by environmental groups that complain about the possible harmful effects if high level signals in the ELF spectrum. In fact, this past January, a federal judge in Wisconsin ordered the U.S. Navy to immediately stop work on its Project ELF system near Marquette, Michigan and not to upgrade its ELF testing facility near Clam Lake, Wisconsin. The Navy claims that the system is intended to defeat Soviet attempts to jam radio communications in the event of a nuclear attack. The Navy's ELF project was first proposed in the 1960's, but Judge Barbara Crabb said a 1977 environmental impact statement filed with the EPA in 1977 was insufficient for the project. Judge Crabb also ordered the Navy to stop installing ELF receivers on submarines.

We haven't heard the last of ELF! Neither



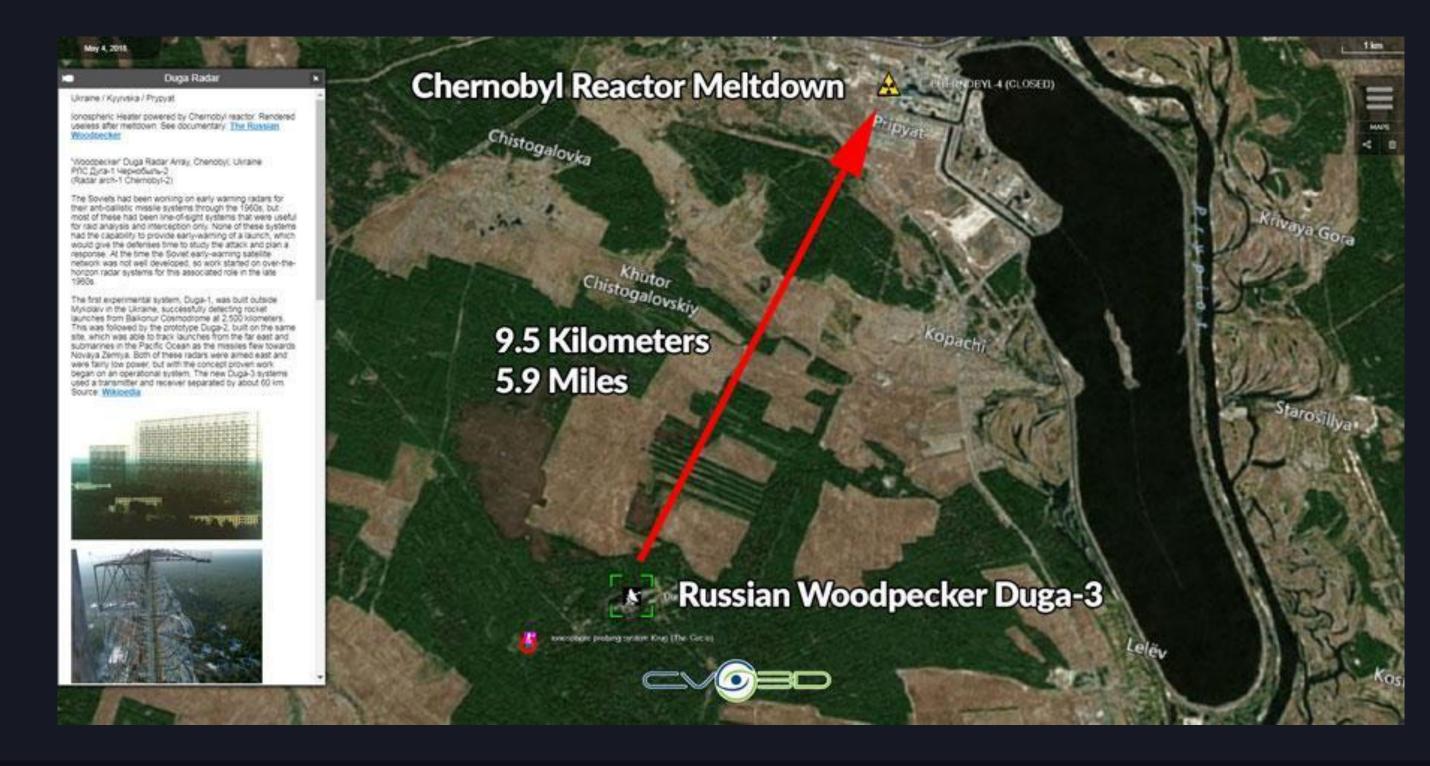


Space Weather Control Terrestrial Weather Modification The Russian Woodpecker (DUGA-3) Destroyed

Chernobyl Meltdown, April 26, 1986

Reactor 4 meltdown occurred 26 April 1986. The Exclusion Zone covers an area of approximately 2,600 km2 in Ukraine immediately surrounding the Chernobyl nuclear power plant where radioactive contamination from fallout is highest and public access and inhabitation are restricted.

This meltdown shut down the Russian Woodpecker at Chernobyl, three years after the "weather warfare" attack on the United States with standing waves, high pressure zones, and the El Nino.







Space Weather ControlClimate Temperature Control and Ionospheric Holes

The Global Warming Pause

"Could these HAARP activities be the reason for troubling anomalies in our climate data and modelling? Anomalies capitalized upon by climate denying interests in their fight against climate activists and concerned scientists."

Purposeful Anthropogenic Climate Alteration:

RF Ionospheric Heater Arrogance (e.g. HAARP)





Space Weather ControlClimate Control

Project LUCY in the Sky With Diamonds

"Generating sunshine reflecting noctilucent clouds in increasing amounts in the mesosphere which will reflect the suns energy back into space."

"noctilucent clouds formed from the breakdown of methane in a circular zone above the HAARP transmitter"

"4 other similar facilities in the world (Hipas, Alaska; Arecibo, Puerto Rico, EISCAT, Norway and Sura, Russia) where they could immediately attack the atmospheric methane as well."

- Arctic Methane Emergency Group (AMEG)

Figure 7. Project Lucy Radio and Laser Atmospheric Methane Cloud Detetection, Energisation and Methane Destruction Project Lucy therefore aims to design, build and test a microwave transmission system targeting low-altitude methane clouds with the aim of breaking the first C-H bond as soon as the methane erupts into the atmosphere from the Arctic Ocean. released from Water and Methane Rises Gases and and Combines to Form Ha Geostationary-Satellite Three Dimensional Base Station with Neural Net Computer, Three 13.56 MHz -Radio Link Transmitter Ships The transmitters can be mounted on submarines, planes and after 2015 on boats and drilling rigs when the Arctic ice cap has melted (Arctic 9 transmission systems linked News, 2012). (Light and Carana 2012) Cubic radio interference pattern Geostationary satellite links 9 transmission Three Dimensional radio interference pattern set up by systems to a neural three 13.56 MHZ transmitter ships with attached LIDAR net which continuously and Methane heating lasers with the ability to scan the monitors the methane 3D radio interference pattern in the methane cloud content in the cloud & subparallel to the 13.56 MHZ radio transmission beam automatically adjusts the frequency, polar-LIDAR methane detection laser with 50 km effective range ization, phase shifts continuously scanning 3D radio interference pattern ahead and beam directions of the Methane heating laser (Ehret, 2012) of all three separate transmitter arrays to Methane heating laser continuously scanning 3D radio achieve maximum interference pattern and following behind LIDAR laser methane destruction (Sternowski, 2012)





Space Warfare

"Overall, the U.S. and U.S.S.R. high energy laser (HEL) programs are roughly equal at present time"

Charged particle beam devices, or CPBs, represent "a new phase in the historical development of technology," the study reports. When perfected, these controlled "lightning bolts" can solve a wide range of scientific and industrial problems, the report states.

But it adds ominously: "Soviet work [on CPBs] is strong in exactly the areas needed for weapons application ... It is believed that the Soviets are ahead of the U.S. in many other particle beam weapon (PBW) technologies.

ARTICLE APPEARED
ON PAGE CIL

THE WASHINGTON POST 25 May 1981

Declassified in Part - Sanitized Copy Approved for Release 2012/01/03: CIA-RDP90-00965R000100160095-3

JACK ANDERSON

The Race for 'Star Wars' Weapons

The United States and Soviet Union are engaged in a deadly race to develop "Star Wars" weapons, like laser beams and man-made lightning bolts. The top-secret plans call for mounting them aboard future space-ships.

Indeed, the space shuttle Columbia may be the forerunner of future Galactica-like battleships that may cruise in space. But if the United States is ahead in developing a reusable spaceship, the Kremlin's scientists may have the edge in other crucial areas of research.

Now that the Soviet Union has apparently caught up in the sophistication of its strategic missiles, the Reagan administration is likely to decide that the United States should concentrate on keeping ahead in the field of laser technology. One intelligence expert who attended a secret laser briefing called it "the hottest briefing in town."

What makes these "directed energy" weapons so hot is that they are expected to make strategic missiles obsolete within the next 20 years. Laser beams can be-thwarted by clouds and other atmospheric disturbances, but a similar ray gun called a "particle beam weapon" would be virtually unstoppable. Both super-powers are trying to perfect them.

"The Soviets have had a research program under way since 1970 aimed at developing lasers with weapons applications," reports a top-secret Central Intelligence Agency document. The CIA identified several possible Soviet laser ranges and one probable—at Golovino, about 100 miles east of Moscow. "It is similar in length and layout to U.S. high-energy laser test ranges," the CIA explained, adding:

"Similar U.S. programs suggest that the kinds of tests most likely... performed at these sites are those most suitable for ground or air-based defense, including air-to-air combat, although the results would also be useful for programs concerning antiballistic missile, anti-satellite or laser-guided munitions."

Who's ahead? An assessment of the U.S.-Soviet balance in laser and other directed-energy weapons is contained in a highly classified study conducted last year by the Arms Control and Disarmament Agency. It was shown to my associate Dale Van Atta.

"Overall, the U.S. and U.S.S.R. high energy laser (HEL) programs are roughly equal at the present time," the secret report says, "although the U.S. is believed to have an advantage in the pointing, tracking, optics and control technologies . . . "

The Russians "appear to be ahead in short pulse lasers and electrical discharge lasers, which could be useful ... for military applications in the atmosphere."

As for the awesome particle-beam weapons, the report says the Soviet Union is believed to have had a research and development effort under way for possibly 20 years.

Charged particle beam devices, or CPBs, represent "a new phase in the historical development of technology," the study reports. When perfected, these controlled "lightning bolts" can solve a wide range of scientific and industrial problems, the report states.

But it adds ominously: "Soviet work [on CPBs] is strong in exactly those areas needed for weapons application—whereas U.S. work to date has not been pointed toward military applications."

The report continues: "It is believed that the Soviets are ahead of the U.S. in many other critical PBW technologies... and that the present Soviet level of effort should permit them to continue to advance in these technology areas at a rapid rate."

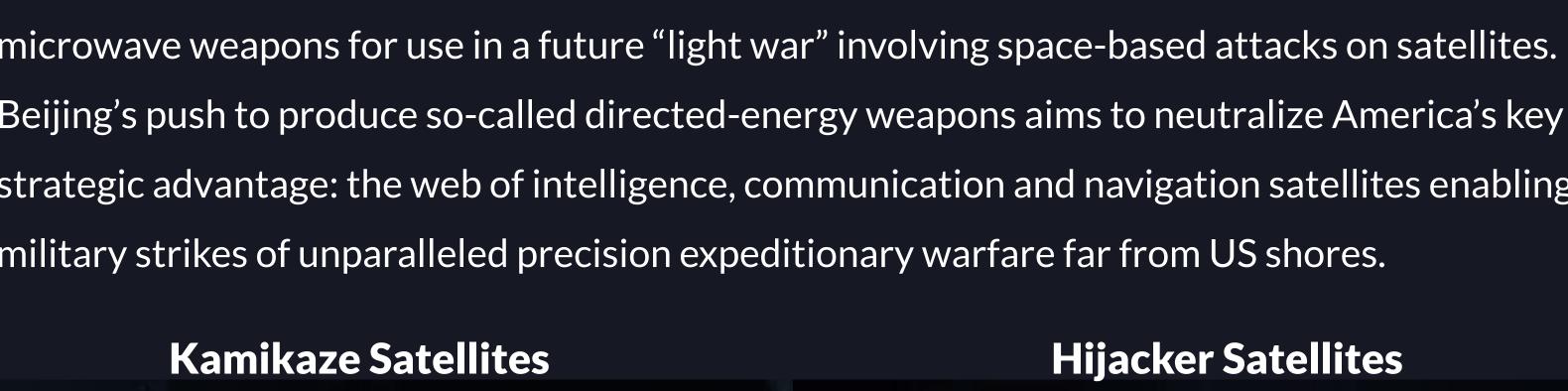
FOLLOW US ON FACEBOON

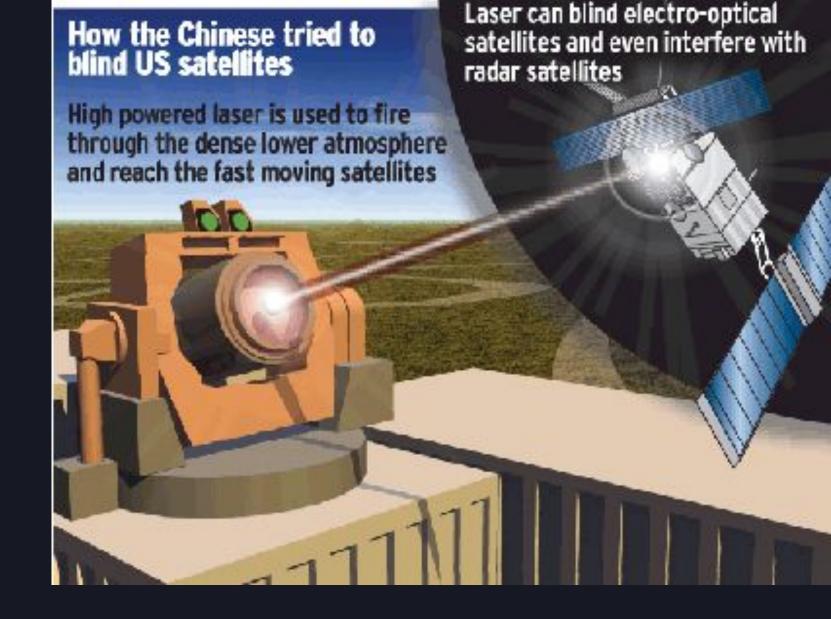




Space Warfare

China's military is developing powerful lasers, electromagnetic railguns and high-power microwave weapons for use in a future "light war" involving space-based attacks on satellites. Beijing's push to produce so-called directed-energy weapons aims to neutralize America's key strategic advantage: the web of intelligence, communication and navigation satellites enabling military strikes of unparalleled precision expeditionary warfare far from US shores.





Laser-Blinding Satellites







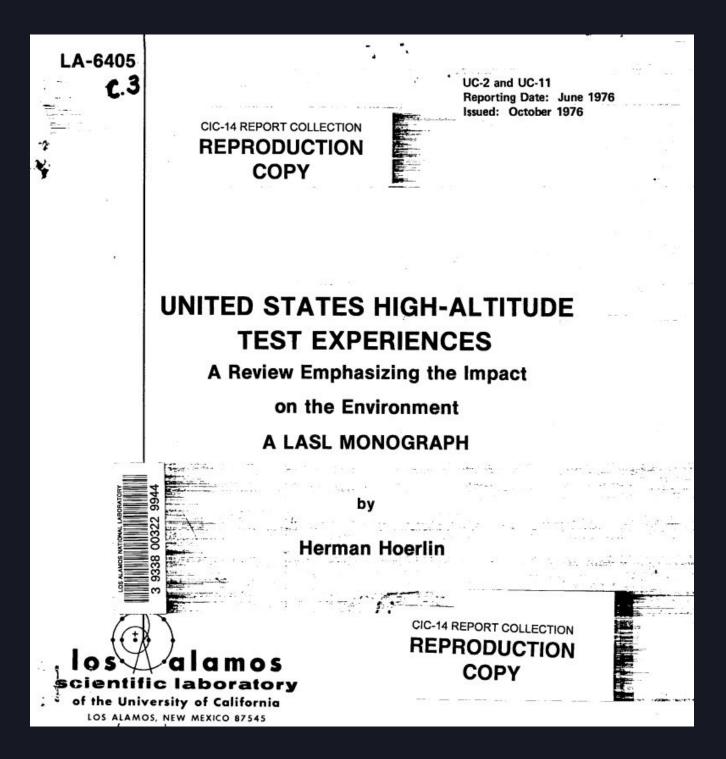


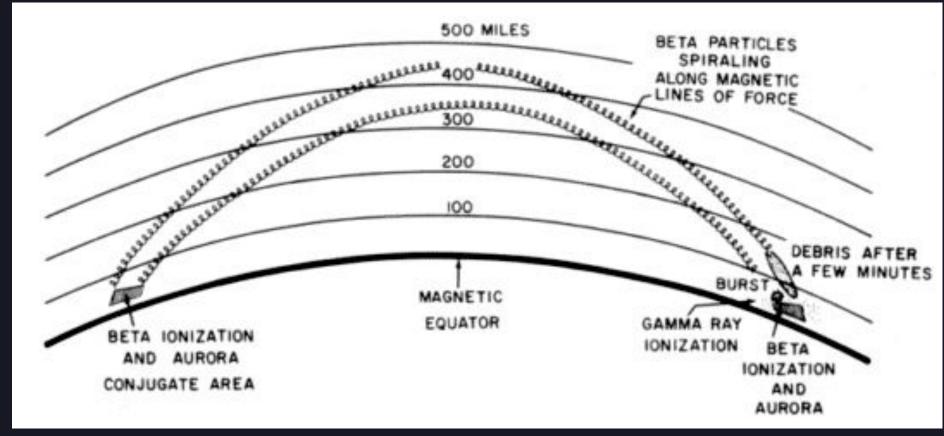




Radiation Belt Remediation (Artificial Aurora)

Christofilos Effect could fry satellites and Intercontinental Ballistic Missiles





The Christofilos effect would produce an area of highly charged particles at a selected location. It was believed that by flying through this region at high speeds, the warheads or guidance systems of attacking missiles might be damaged.



- Operation Argus (USA) August 27 September 6, 1958
- Operation Hardtack (USA) August 1-12, 1958
- Starfish Prime (USA) July 9, 1962
- Operation K (Russia) October 22 November 1, 1962





Radiation Belt Remediation & Artificial Aurora

Sucking radiation from space to prevent damage from EMP and Solar Flares

SATELLITE THREAT DUE TO HIGH ALTITUDE NUCLEAR DETONATIONS

DENNIS PAPADOPOULOS
PHYSICS DEPARTMENT
UNIVERSITY OF MARYLAND

Acknowledge Input From

- DTRA HAND/HALEOS STUDY
- TETHER PANEL HAARP STUDY

The electromagnetic pulse generated by the (nuclear) explosion and the "Christofilos Effect" — the creation of an artificial radiation belt around the Earth — could cripple "low Earth orbit" satellites and with them many of the world's communications systems, Jane's reported.

A high-altitude (nuclear) explosion "produces an artificial radiation belt that, within weeks to at most months, delivers a lethal dose of radiation to satellites," said Dennis Papadopoulos, a scientist at the University of Maryland who worked with Nicholas Christofilos, who predicted the effect.

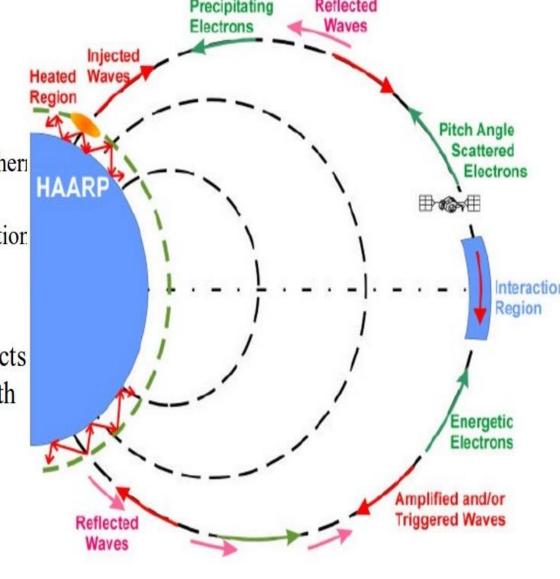
"If someone were to explode a 10-kiloton nuclear weapon at a high enough altitude over their own territory, 90 percent of the world's low Earth orbit satellites would be lost within a month,"

Papadopoulos said.

TETHER Panel Recommendation:

Use HAARP facility in Alaska as a "wind tunnel" to determine the feasibility and engineering specifications of a mitigation system.

- Observe amplified and triggered waves
- At conjugate region (Southern Pacific)
- Near HAARP upon reflection in the south
- Observe ionospheric effects of precipitated electrons with HAARP diagnostics

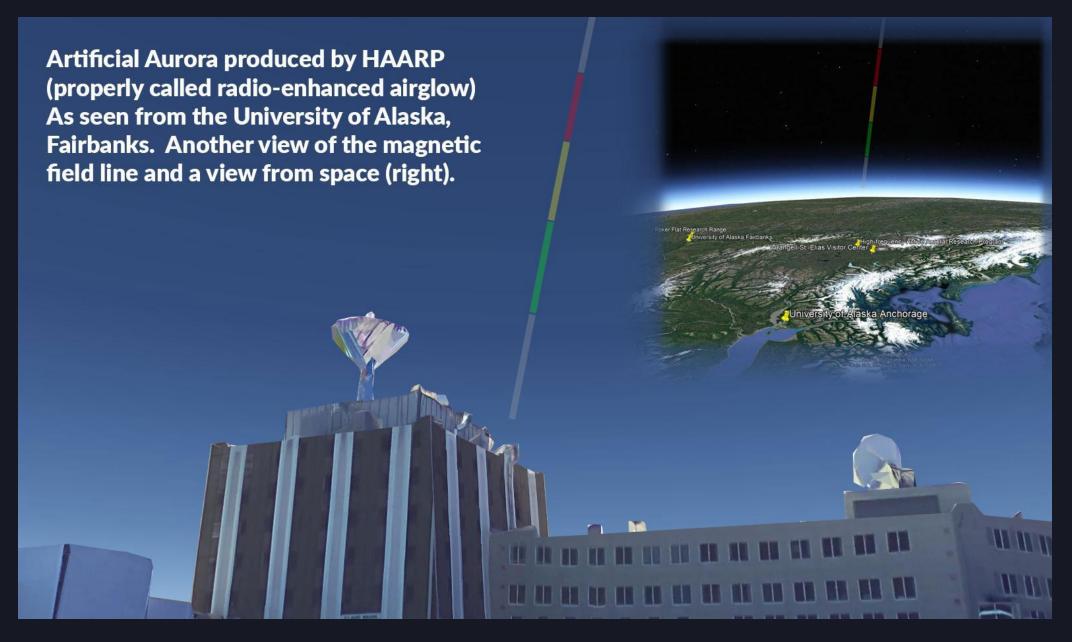






Radiation Belt Remediation & Artificial Aurora CREATING "RADIO-ENHANCED AIRGLOW"

The artificial aurora (properly called radio-enhanced airglow) occurs at an approximate altitude of 150 to 300 km and can be photographed, conditions permitting, from distances several hundreds of kilometers from HAARP, including near the main population centers of Alaska: Anchorage, Fairbanks, and Juneau. The HAARP artificial aurora is usually not sufficiently luminous to be seen with the unaided eye except under exceptional conditions, and even the best case it is as bright (though much smaller in appearance) as the Andromeda galaxy.





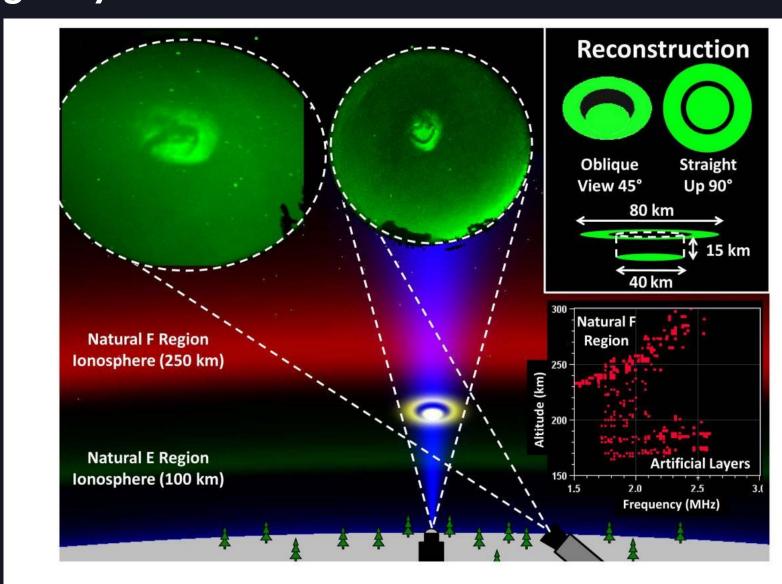


Fig. 1. Observation geometry and image data from two low-light imaging systems capturing 557.7-nm emissions from a bull's-eye-shaped artificial ionospher plasma over the HAARP facility. A reconstruction based on the image data shows the central spot and the ring to form two distinct artificial layers separated altitude by \sim 15 km, which matches closely the multiple layers seen in ionosonde echoes (lower right).



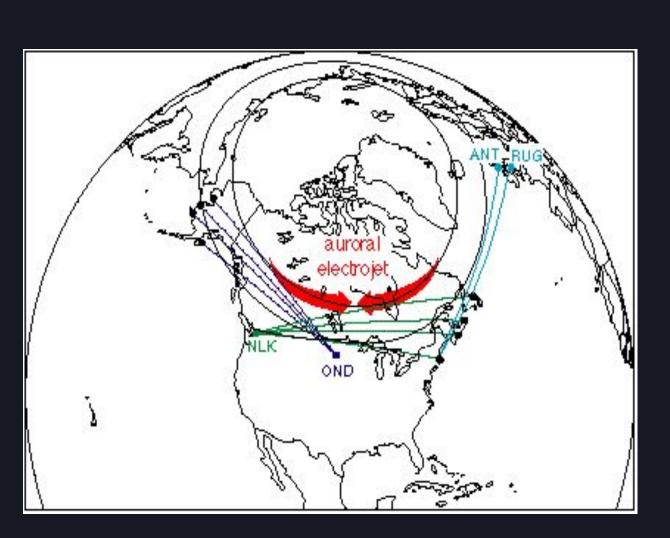


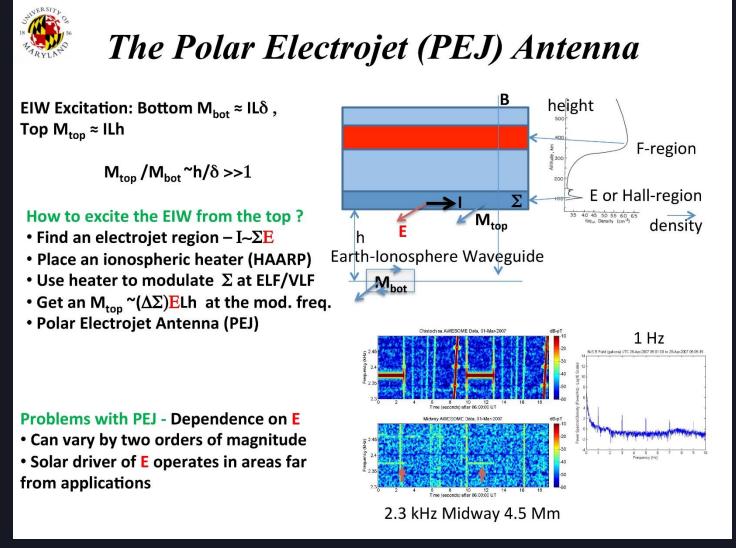
Extremely Low Frequency (ELF and ULF) Waves Creating ELF from High Frequency Transmissions

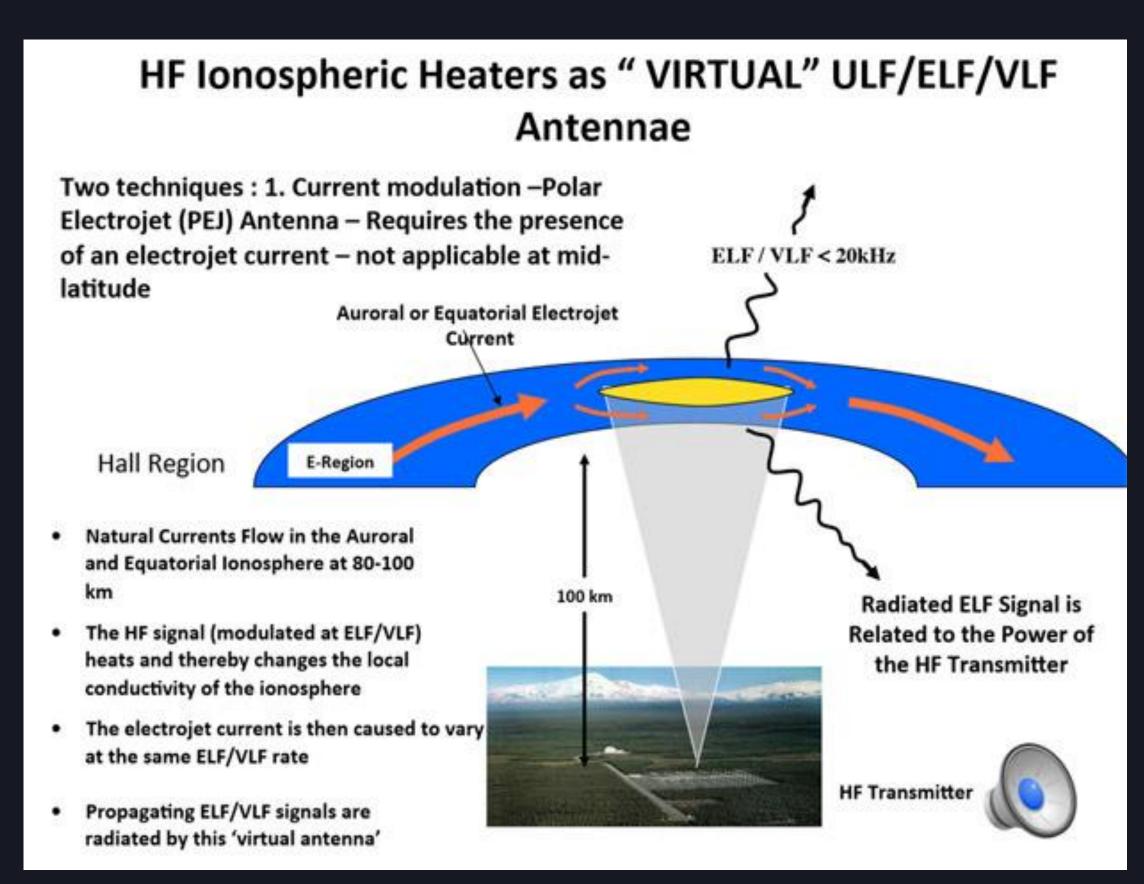
Polar Electrojet (PEJ) Antenna

High-latitude Ionospheric Heaters can use the Electrojet, a naturally occurring electrical current in the D/E Region (70-90 km) of the ionosphere, as both an amplifier and virtual antenna. belts, hopping back and forth.

Ionospheric Heaters: How HAARP really works













Extremely Low Frequency (ELF and ULF) Waves Creating ELF from High Frequency Transmissions

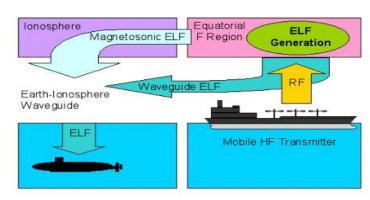
Ionospheric Current Drive (ICD)

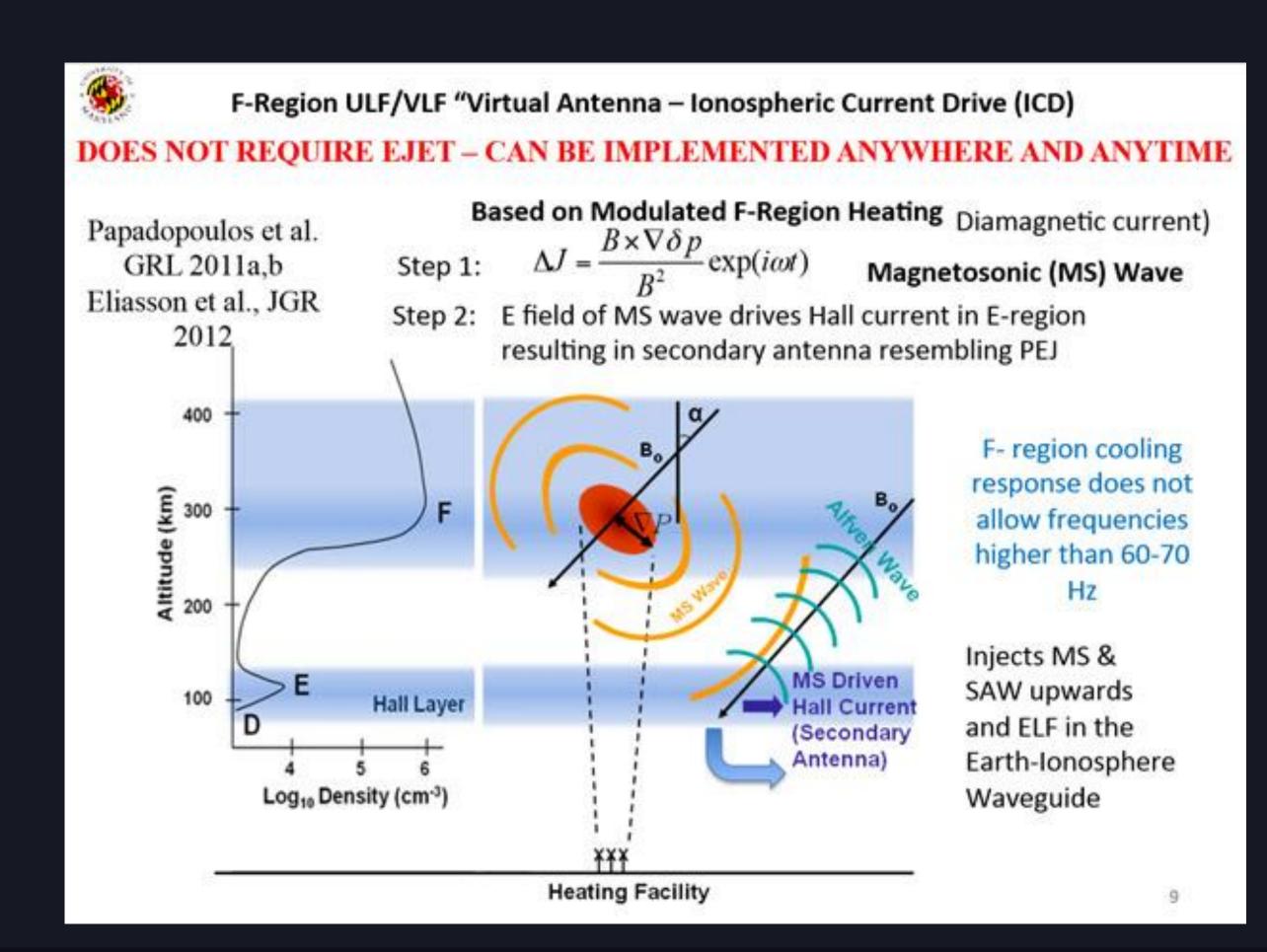
Both High Latitude and Equatorial Ionospheric Heaters may use an alternate method to produce UFL/ELF waves that does not require the Electrojet. By heating the F layer (150–800 km) of the ionosphere, Magnetosonic (MS) waves are create a secondary Alfven wave generator in the E Region. These Alfven waves travel upward and follow the Van-Allen belts, hopping back and forth. **Ionospheric Heaters: How HAARP really works**



SUMMARY

- ELF produced by HAARP with NO Electrojet A Major Breakthrough based on discoveries in recent HAARP campaigns under MURI/ONR and BRIOCHE/DARPA programs
 - Predictable and repeatable ELF generation up to 50 Hz on daily basis
 - $M_{eff} \approx 4x10^9 \text{ A-m}^2$
 - Validated technique: plasma currents driven by HF heating in the F/E layers
 - Technology transferable to low latitude regions with robust F & no E'Jet
- An efficient lonospheric ELF source that can be positioned in theater on a mobile platform
 - Data rate >> FELF system
 - Higher source strength
 - High TRL level for transitioning







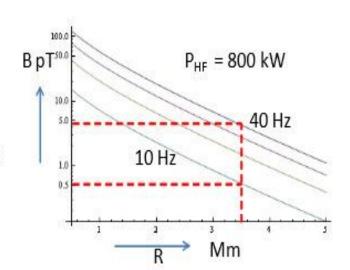


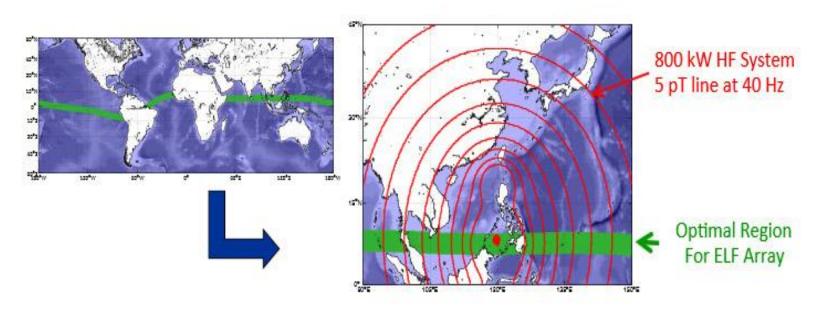
Extremely Low Frequency (ELF and ULF) Waves Mobile Ionospheric Heaters on Boats



ELF Mobile Array Performance

- Optimal area for Mobile Array along Magnetic Equator (green band, within 2° from dip equator)
- Power requirements depend on location
 - Example: Korea Yellow Sea
 - 800 KW system can provide data rates in the tens of bit/sec
 - Signal as large as 5 pT at 40 Hz or more at range of 3500 km
 - Typical background noise at 40-80 Hz is 200-500 fT/Hz^{1/2}





The Ionosphere controls the performance of critical DoD & civilian systems [Communications range, radar, navigation, Geolocation accuracy, etc]

- DoD/civilian active research using traditional ionospheric heaters provided new capabilities and applications that allow control/exploitation of triggered processes (in space, artificial clouds, irregularity control,)
- The low power of traditional heaters resulted in large arrays and active elements, with complex and costly controls leading to fixed installations
- Fixed locations are associated with fixed magnetic geometry limiting the scope of the research investment

HAARP on a Boat? Ionospheric Heaters go Mobile!



Implications - Barge or Shipboard Option

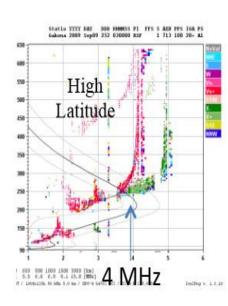
Combination of low HF power and high HF frequency requirements allow for mobile

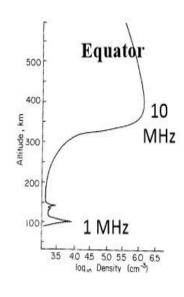




Strawman HF Array

- HF frequency 8-10 MHz
- Linear polarization
- Twenty 25-kW solid state transmitters
- Ship provided power
- Can provide theater and strategic sub communications
- Enhance Blue-Green laser tactical communications by providing info as to transmit and receive locations











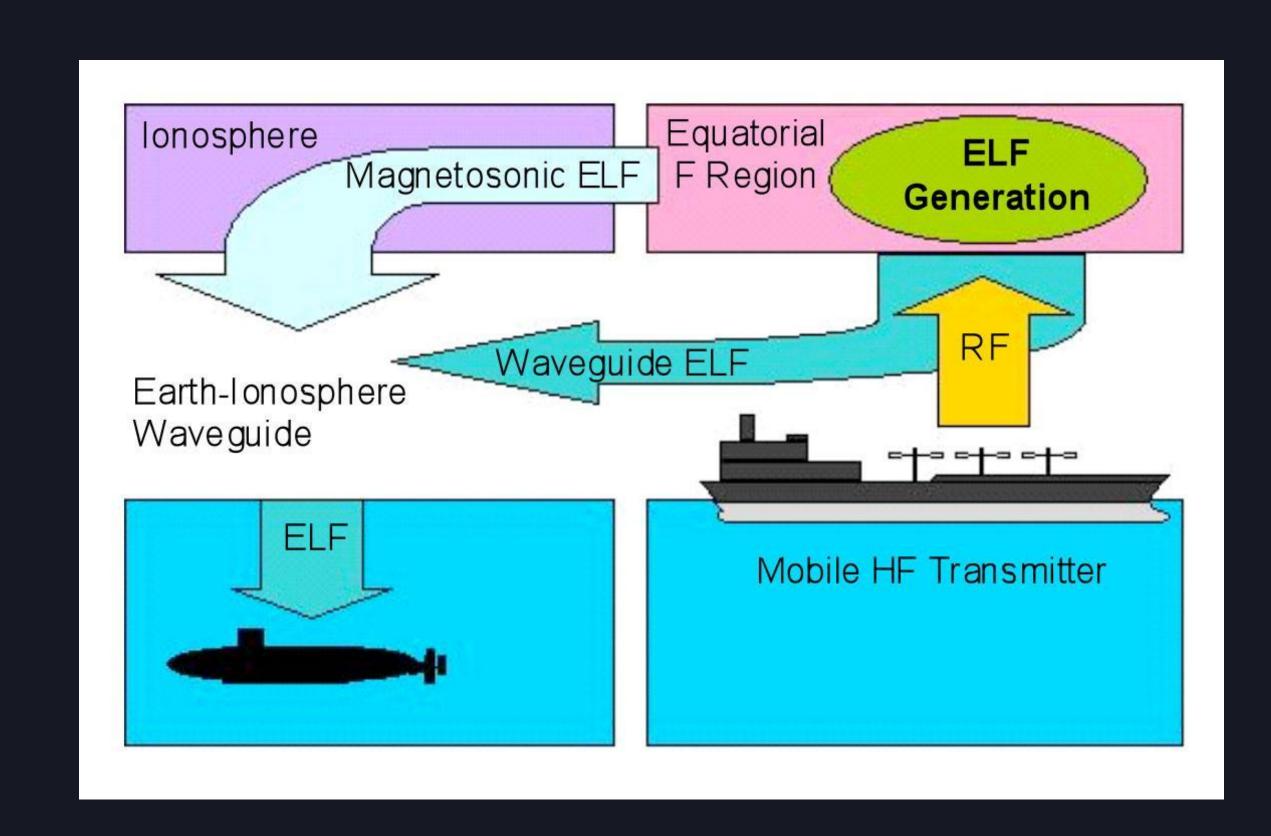
Extremely Low Frequency (ELF and ULF) WavesSignaling the Apocalypse: Talking to Submarines

Pre-emptive nuclear strike

ELF waves are sent to submarines telling them to surface so they can receive radio frequency or laser-based instructions (launch codes and targets) from military commanders.

These instructions will not reach underwater, however, ELF and ULF waves reach the bottom of the ocean.

In nuclear strategy, a first strike is a preemptive surprise attack employing overwhelming force. First strike capability is a country's ability to defeat another nuclear power by destroying its arsenal to the point where the attacking country can survive the weakened retaliation while the opposing side is left unable to continue war. The preferred methodology is to attack the opponent's strategic nuclear weapon facilities (missile silos, submarine bases, bomber airfields), command and control sites, and storage depots first. The strategy is called <u>counterforce</u>.







Extremely Low Frequency (ELF and ULF) Waves Artificial Gravity Waves (AGW) and Traveling Ionospheric Disturbances (TID)

"Results of our ionospheric HF heating experiments to generate artificial acoustic-gravity waves (AGW) and traveling ionospheric disturbances (TID), which were conducted at the High-frequency Active Auroral Research Program (HAARP) facility in Gakona, Alaska.

The result of our experiments at the HAARP facility indicates that artificial AGW/TID can be generated in the ionosphere by the means of a modulated HF heating.

During the modulated heating, MUIR radar detected that the wind velocity outside the heated plasma volume was oscillating periodically with the same frequency as that of the heater power modulation cycle."

Generation of Artificial Acoustic-Gravity Waves and Traveling Ionospheric Disturbances in HF Heating Experiments



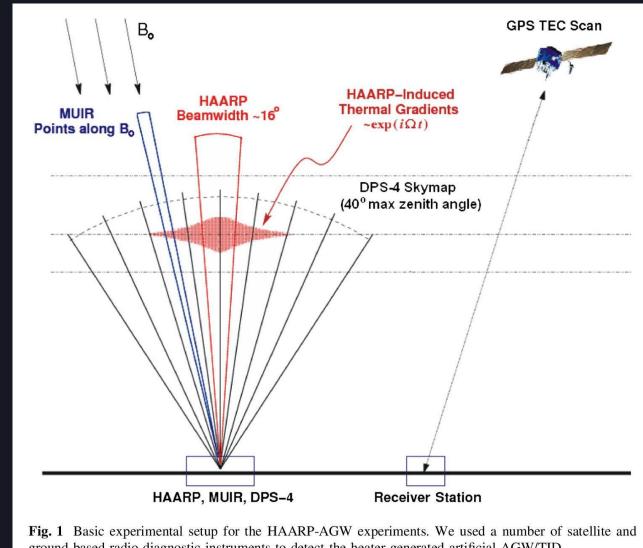
AN AGU JOURNAL

Atmospheric gravity waves generated in the high-latitude ionosphere: A review

First published: May 1982 | https://doi.org/10.1029/RG020i002p00293 | Cited by: 318

F2-region atmospheric gravity waves due to high-power HF heating and subauroral polarization streams

E. Mishin, E. Sutton, G. Milikh, I. Galkin, C. Roth, and M. Förster Received 11 April 2012; revised 2 May 2012; accepted 2 May 2012; published 1 June 2012.



ground-based radio diagnostic instruments to detect the heater-generated artificial AGW/TID

Investigation of acoustic gravity waves created by anomalous heat sources: experiments and theoretical analysis

R Pradipta¹ and M C Lee^{1,2} Published 16 July 2013 • 2013 The Royal Swedish Academy of Sciences Physica Scripta, Volume 2013, T155





Extremely Low Frequency (ELF and ULF) Waves

Mind Control - Influencing Nervous Systems by Electrical Methods

Extremely Low Frequency (ELF) waves: ELF waves up to 100 Hz are once more naturally occurring, but they can also be produced artificially (such as for the Navy's Project Sanguine for submarine communication). ELF-waves are not normally noticed by the unaided senses, yet their **resonant effect upon the human body** has been connected to both physiological disorders and emotional distortion.

"From PSYOP to MindWar: The Psychology of Victory."



Russian parliament concerned about US plans to develop new weapon



Acronyr	n Full Designator	Freq Range	Applications
ULF ELF	(Ultra-Low Frequencies) (Extremely Low Frequencies)	3 - 30 Hz 30 - 300 Hz	Navy strategic communications
VF VLF	(Voice Frequencies) (Very-Low Frequencies)	300 - 3000 Hz 3 kHz - 30 kHz	Navy strategic communications
LF	(Low Frequencies)	30 kHz - 300 kHz	Navy Comm, Navigation (NDBs)
MF	(Medium Frequencies)	300 kHz - 3 MHz	Navigation (NDBs), AM Broadcast
HF	(High Frequencies)	3 MHz - 30 MHz	Short Wave, Ham Radio, Int'l Broadcast
VHF	(Very-High Frequencies)	30 MHz - 300 MHz	FM Broadcast, Television, Police/Fire
UHF	(Ultra-High Frequencies)	300 MHz - 3 GHz	Satellite, GPS, Cell Phone, Television
SHF	(Super-High Frequencies)	$3\mathrm{GHz}$ - $30\mathrm{GHz}$	Satellite Comm and Broadcast
EHF	(Extremely High Frequencies)	30 GHz - 300 GHz	Satellite Comm





Extremely Low Frequency (ELF and ULF) Waves

Mind Control - Snuffing the Schumann Resonance

Schumann resonances: 7.83, 14, 20, 26, 33, 39 & 45 Hz.

Resonant frequency of the planet Earth which is 10 Hz as Nikola Tesla discovered.

Damaging this planetary heartbeat could be detrimental to all life on this planet.

In the name of progress, this Earth Pulse is now threatened with the ever-growing phenomenon of man-made electro-pollution in an advancing technological age.

Brainwave Evolution: Lewis B. Hainsworth was among the first to suggest that human health is linked to a geophysical framework by way of the naturally occurring Schumann ELF (extremely low frequencies). His theory identified naturally occurring features which determine the frequency spectrum of human brain-wave rhythms. He concluded that the frequencies of human brain-waves evolved in response to these signals.

The Schumann Effect Part 1: How the Earth Influences Your Brain Waves

Pc1 Triggered Emissions? E-W Magnetic Field UTC 05-May-2006 02:01:00 to 05-May-2006 02:06:00 Frequency (Hz) - Log10 Scaled Spectrum after HAARP ULF Start Spectrum before HAARP ULF Noise Increase by more than 10-20 dB Start Experiment - Ambient between .7-10 Hz Noise





Extremely Low Frequency (ELF and ULF) Waves

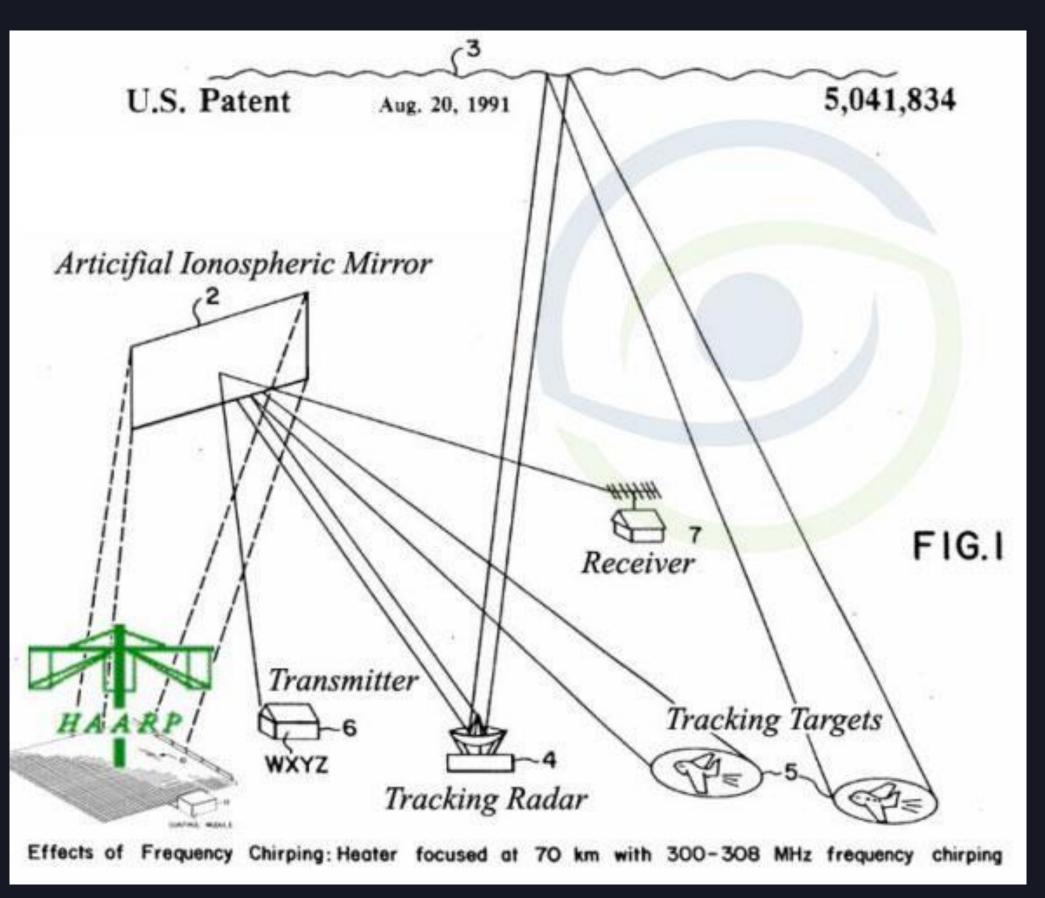
Mind Control - Not Really Practical, Yet



The ELF and ULF produced by HAARP may have effects on EMF sensitive individuals and unknown effects on all life forms on Earth due to interaction and interruption of the Schumann Resonances, but currently: HAARP CANNOT CONTROL YOUR MIND!

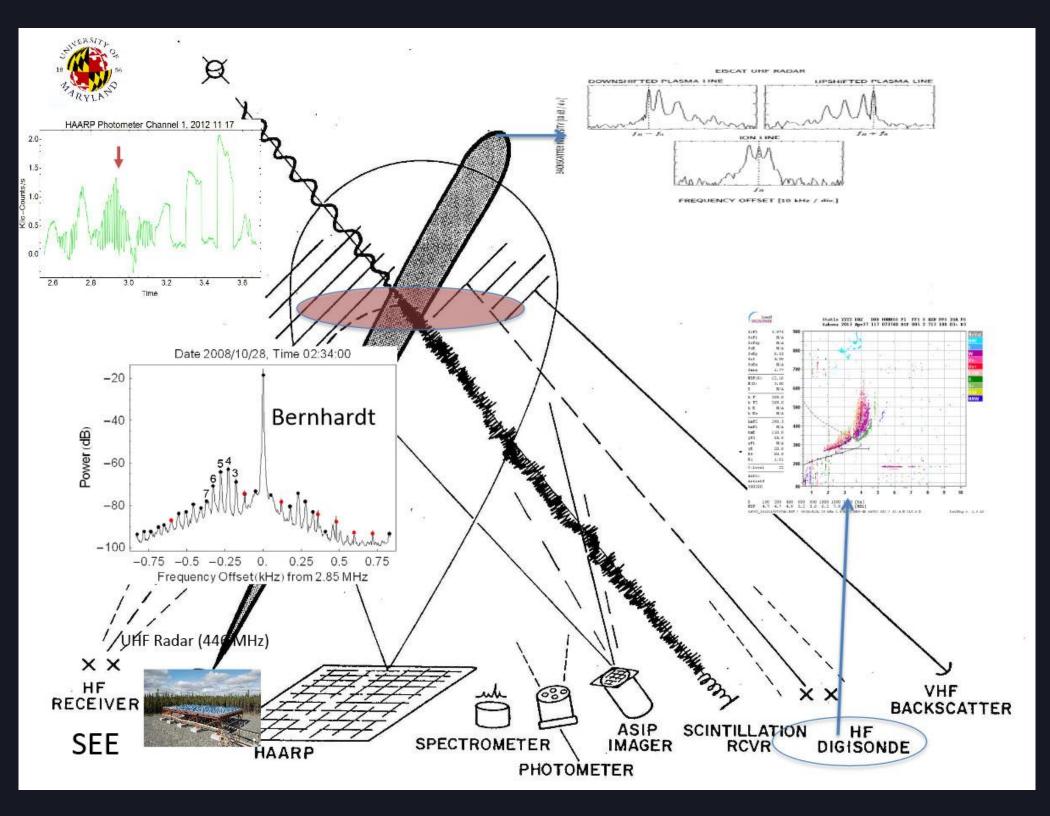


Creating Artificial Ionospheric Mirrors Heating Plasma to Reflect Radio Signals



This invention relates to generation of a Artificial Ionospheric Mirror (AIM), or a plasma layer in the atmosphere. The AIM is used like the ionosphere to reflect RF energy over great distances. A tiltable AIM is created by a heater antenna controlled in phase and frequency. The heater antenna phase shift scans a beam to paint a plasma layer. Frequency is changed to refocus at continually higher altitudes to tilt the plasma layer.

PATENT OWNED BY BAE SYSTEMS









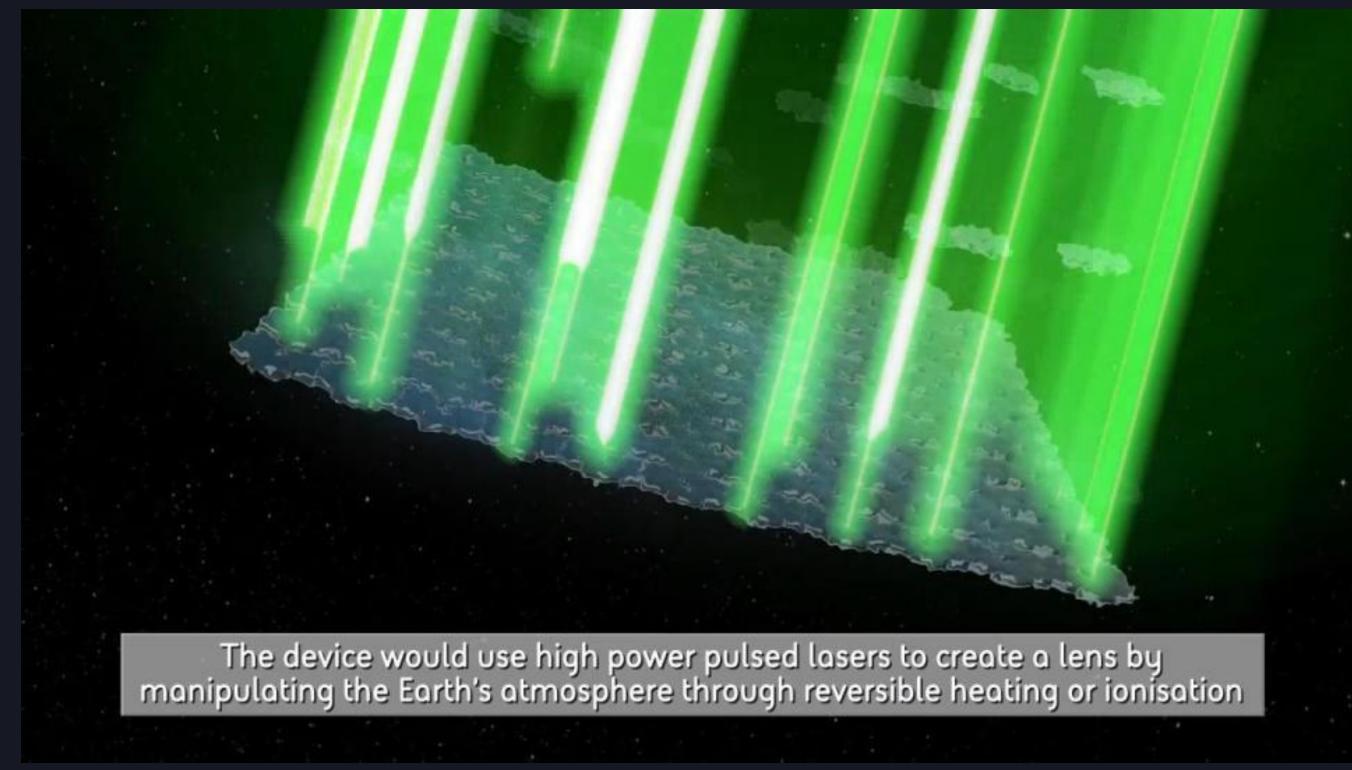
Creating Artificial Ionospheric Mirrors

Laser Developed Atmospheric Lens (LDAL)

THE FUTURE OF SPYING Earth's atmosphere can be turned into massive surveillance system using LASERS, scientists discover British firm unveils research which shows that the atmosphere could be used to spy on ordinary citizens in unprecedented detail.

TECHNOLOGY OWNED BY BAE SYSTEMS







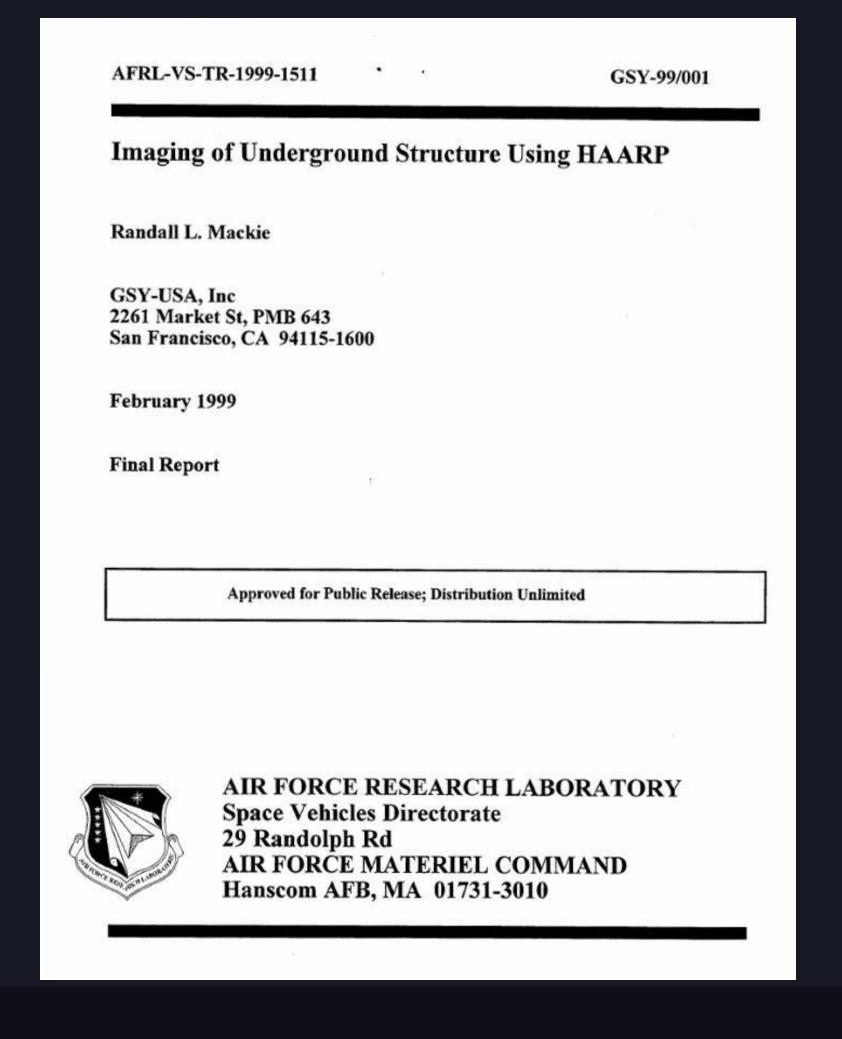




Probing Underground Structures

Non-invasive imaging or underground structure is important for the detection of hidden tunnels and other hazards, as well as resource exploration, mineral exploration, and environmental contamination problems.

The HAARP transmitter has the potential to be a valuable exploration tool in that it could generate electromagnetic fields that appeared locally as plane waves and could overcome the problems with low AMT signal levels and geologic noise.







Probing Underground Structures

Some years ago, military-backed scientists at Alaska's High Frequency Active Auroral Research Program (HAARP) were able to map out tunnels at depths of a hundred feet or greater. Papadopoulos, for example, says he wants to do another round of subterranean surveillance experiments. "Personally, I believe it can reach 1,000 kilometers. It [currently] can't reach Iran, if that's your question," one of those researchers, Dennis Papadopoulos told Danger Room. "But if I put HAARP on a ship, or on an oil platform, who knows?" - Wired **Magazine**





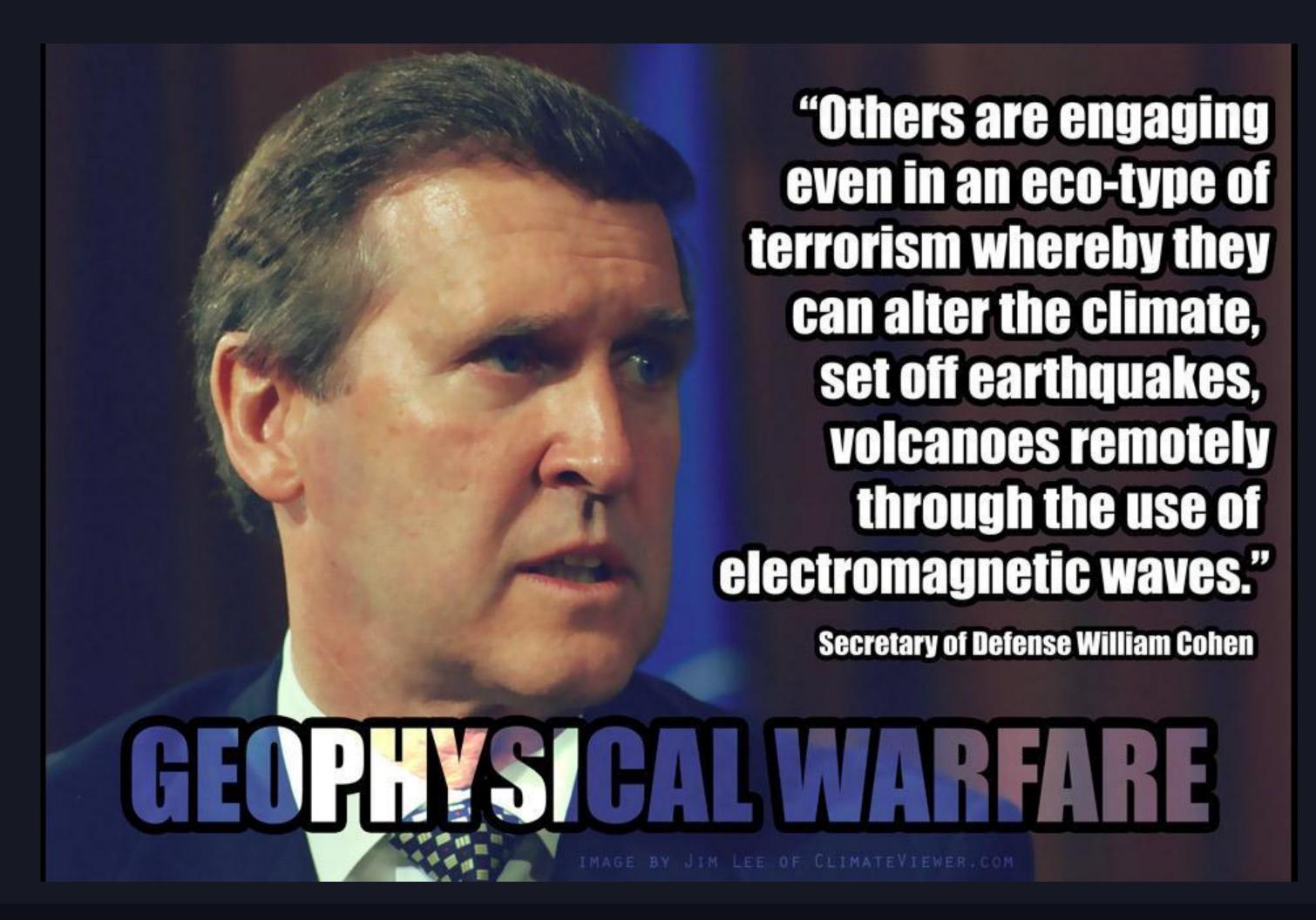


Creating Artificial Earthquakes

"Others are engaging even in an eco-type of terrorism whereby they can alter the climate, set off earthquakes, volcanoes remotely through the use of electromagnetic waves.

So there are plenty of ingenious minds out there that are at work finding ways in which they can wreak terror upon other nations. It's real, and that's the reason why we have to intensify our efforts, and that's why this is so important."

Secretary of Defense William Cohen speaking at <u>"Terrorism</u>, <u>Weapons of Mass Destruction, and U.S. Strategy"</u>
Sam Nunn Policy Forum - April 28, 1997
University of Georgia, Athens, Georgia







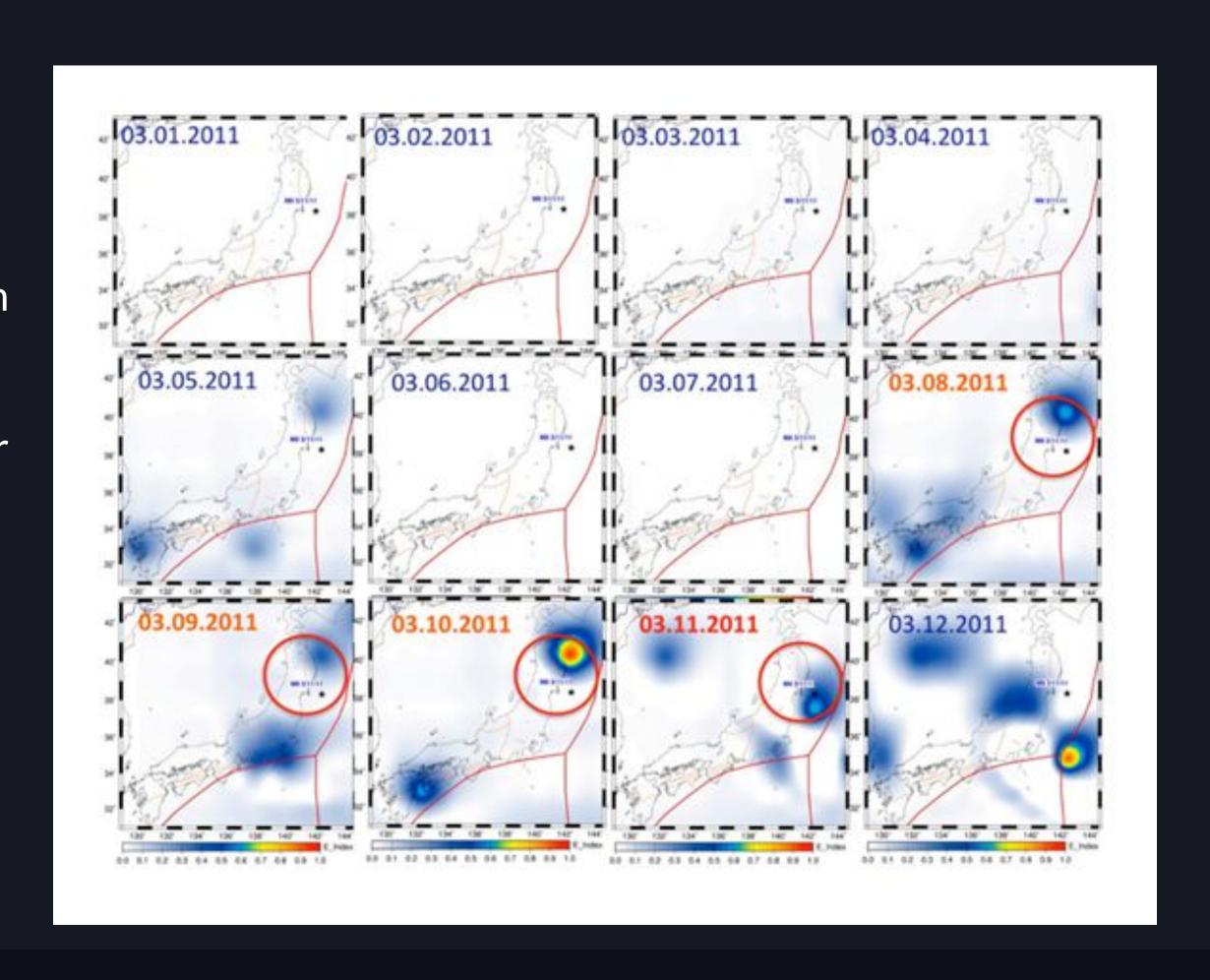


<u>Atmosphere Above Japan Heated Rapidly Before M9</u>

Earthquake

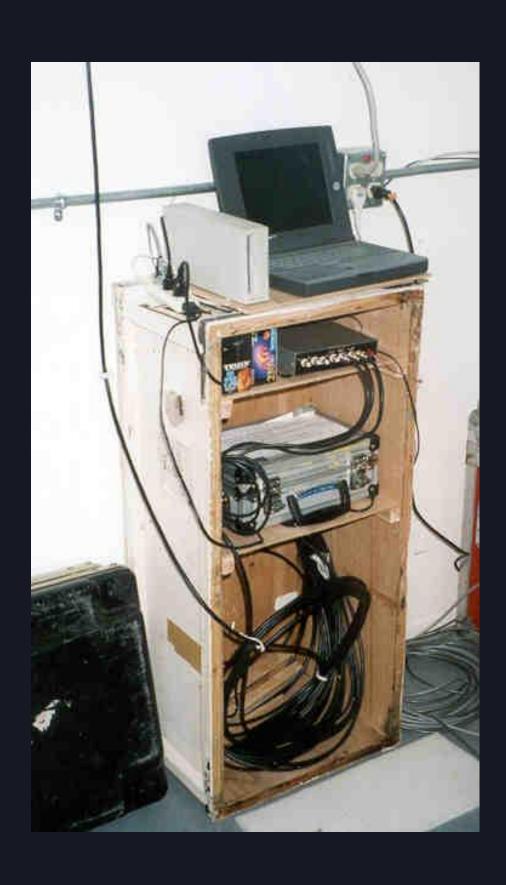
Dimitar Ouzounov at the NASA Goddard Space Flight Centre in Maryland and a few buddies present the data from the Great Tohoku earthquake which devastated Japan on 11 March. Their results, although preliminary, are eye-opening.

They say that before the M9 earthquake, the **total electron content of the ionosphere increased dramatically over the epicenter**, reaching a maximum three days before the quake struck.



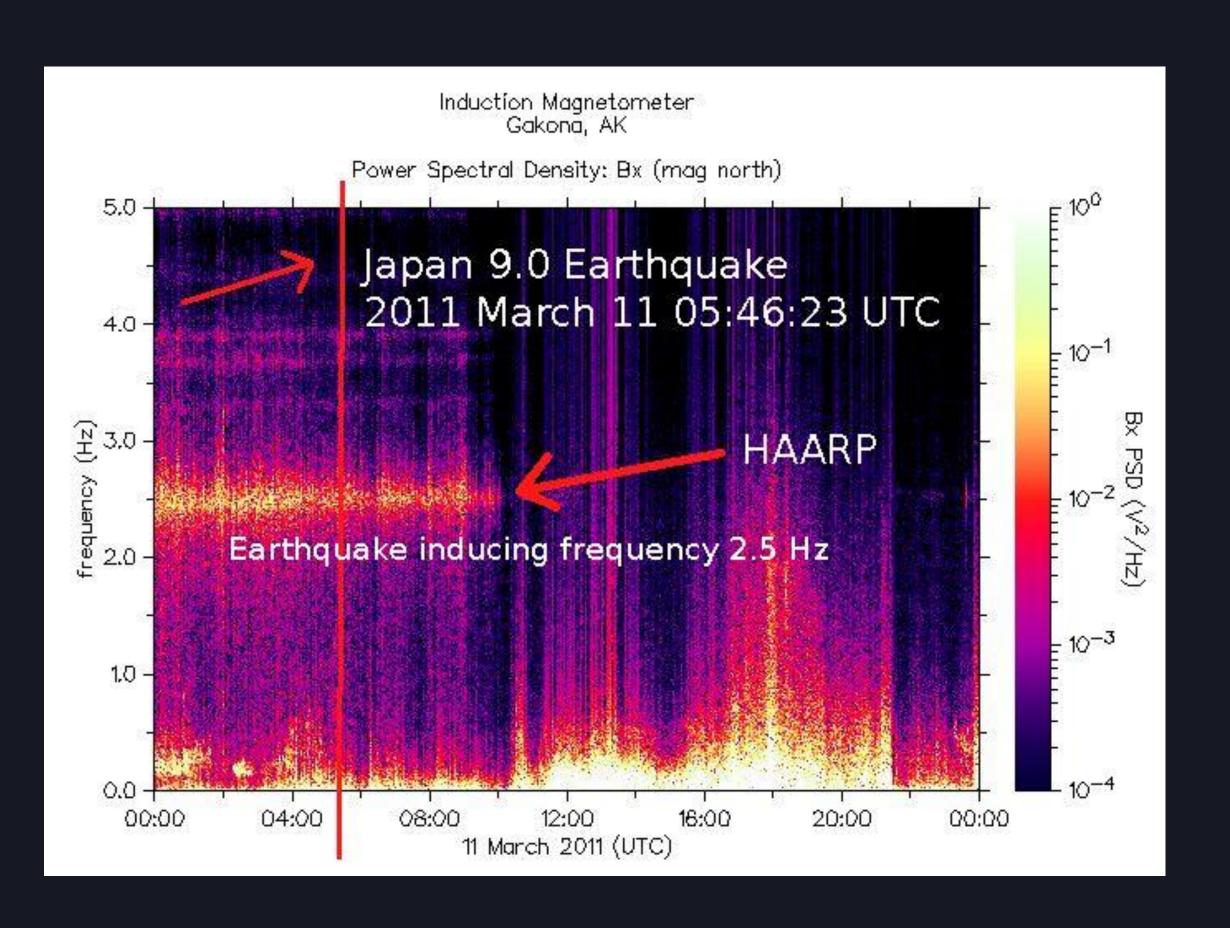




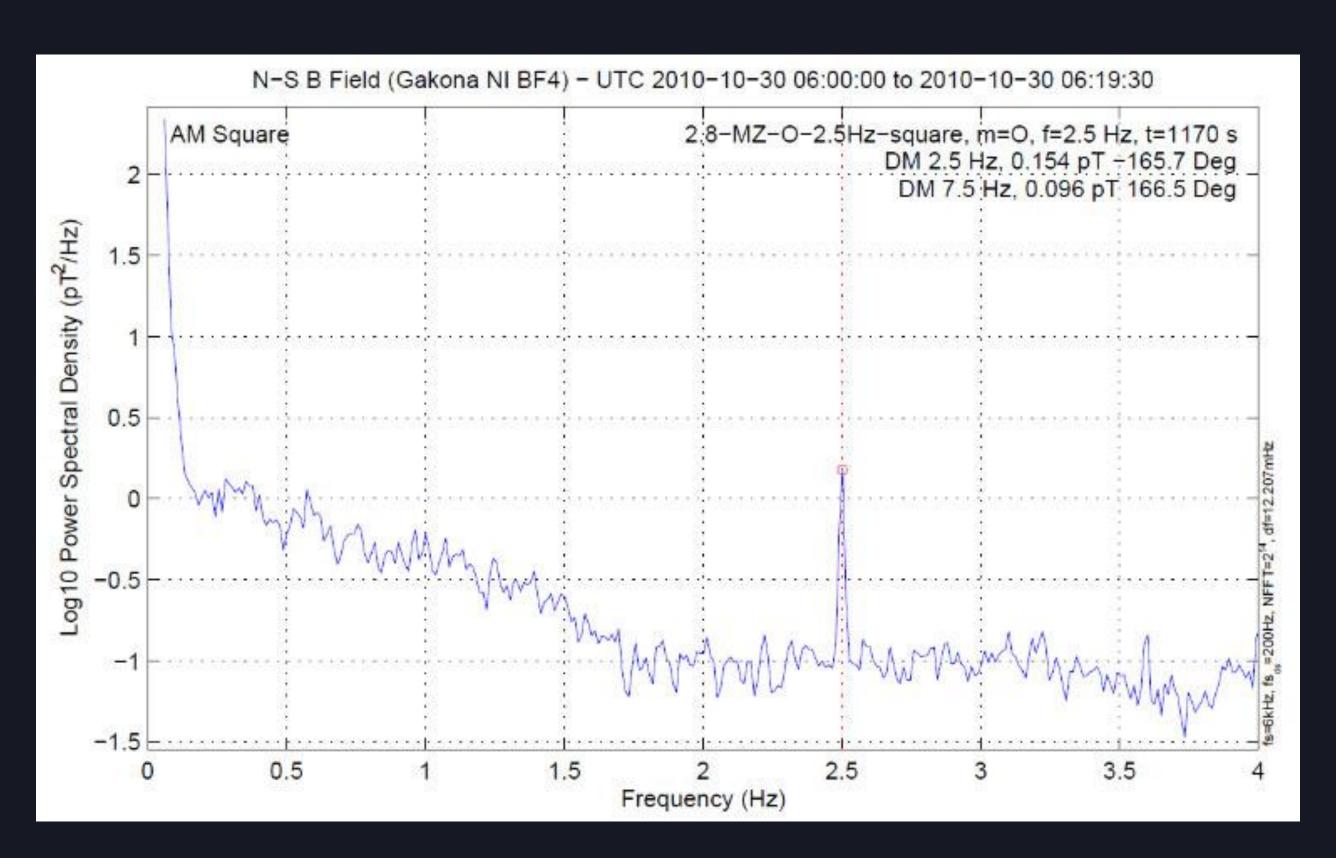


HAARP Ionospheric Heater Active
During Japan's Earthquake

This image is from the U.S. Air
Force's induction magnetometer at
the HAARP facility in Gakona, AK. It
shows a strong 2.5 Hz signal during
the magnitude 9 earthquake, and
had been on for days leading up to
the quake.

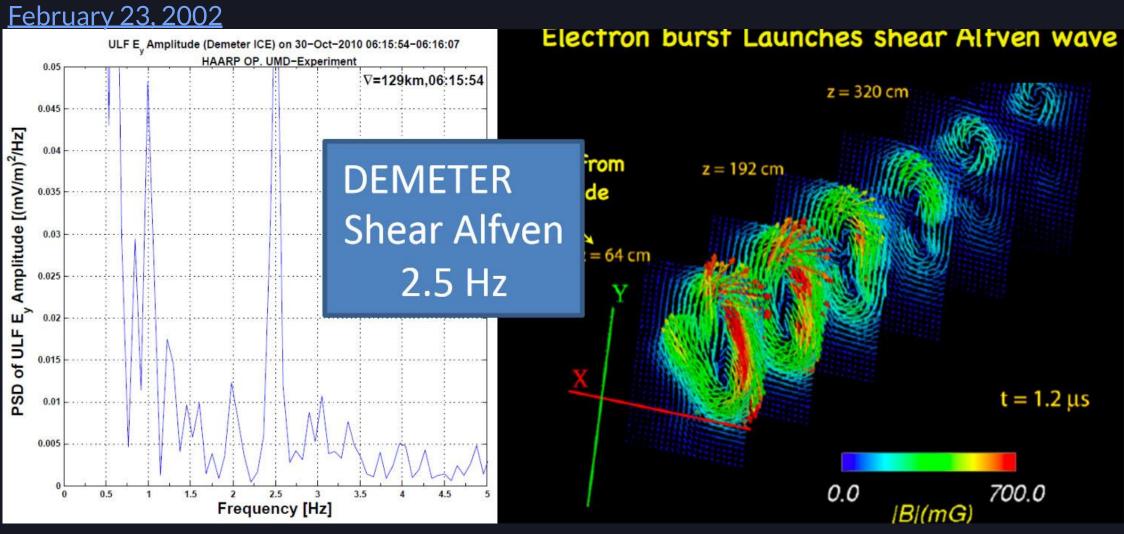






00000.0025:unid/none:unid:NON - ACTIVE

Presumed, but not yet verified as a man-made signal. Detected at various locations worldwide. With amateur equipment, it is not easy to determine eventual frequency shifts, so signal is listed as a 2.5 Hz carrier. So far the signal is not connected with any known geophysical events. Most likely not originating from HAARP - Gakona in Alaska USA. They have little success, with the generation of ELF signals of reasonable strength, over anything then relative short distances. –

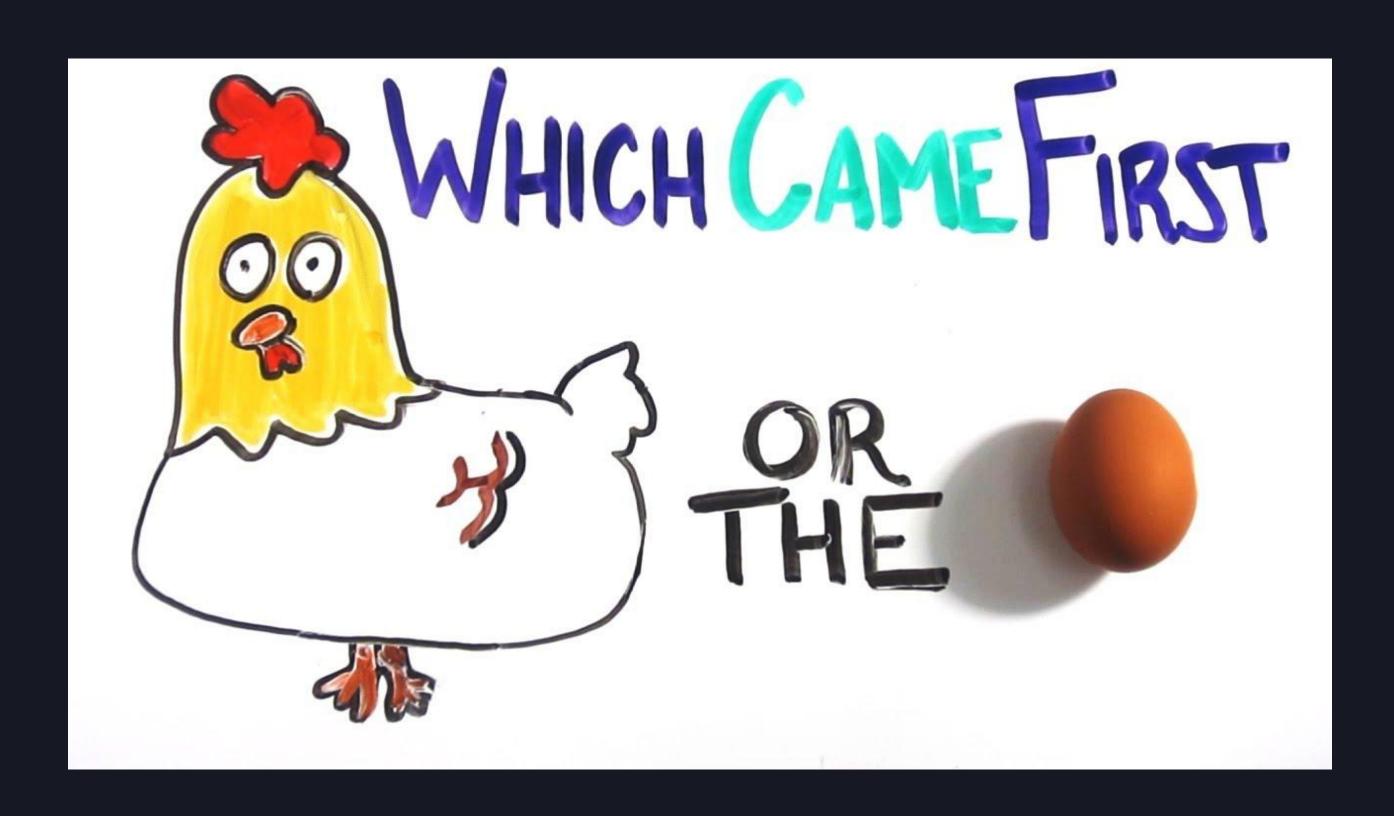


This is the 2.5 Hz Shear Alfven (Ultra-low Frequency) Wave created by HAARP, 2010









WHICH CAME FIRST?

Did the Earth shifting and fracturing heat the ionosphere before the earthquake?

OR

Did an lonospheric Heater heat the ionosphere which caused the earthquake?



Project SECEDE Barium Clouds
ENMOD Weather Warfare Ban
Ukraine Burns Hole in Ionosphere (modifies weather)
The Russian Woodpecker and Chernobyl Meltdown
Project Waterhole (interrupting aurora)
Project Cameo Barium Clouds
Stanford Star Lab Ionospheric Modification
Beam Experiment Aboard Rocket (BEAR)
CRRES and the Arecibo Ionospheric Heater

Global Weather Control using Ionospheric Modification
Space Based Directed Energy Weapons / Satellites
Military used of ULF and ELF based Mind Control

1950-1970

1970-1990

DoD Plans HAARP

1990-2020

THE FUTURE

Upper Atmospheric Nuclear Explosions
Project Highwater
Project West Ford (Needles)
Lyndon Johnson on Space Control
Sounding Rockets & Ion Clouds
Project HARP Cannon
Solar Powered Satellite (SPS)

Counterforce Weather Control: SPACECAST 2020

High Frequency Active Auroral Research Program (HAARP)

Test Technology Symposium 1997: Weather Modification

Secretary of Defense William Cohen on Eco-Terrorism

High Voltage Orbiting Long Tether (HiVOLT)

Thunderstorm Solar Power Satellite

Charged Aerosol Release Experiment (CARE)

Project LUCY Transmitters & Noctilucent Clouds

Climate Global Control Trading LLC

The United States of America's Space Force







Learn More

Welcome to Weather Modification History (WMH), the world's most comprehensive weather control archive with hundreds of verified historical facts, images, and videos. WMH's compelling evidence is easy to browse, exceedingly accurate, and encyclopedic in scope. This website was crafted by dedicated individuals to help you discern fact from fiction with meticulously organized research that offers the activist community a credible compendium.

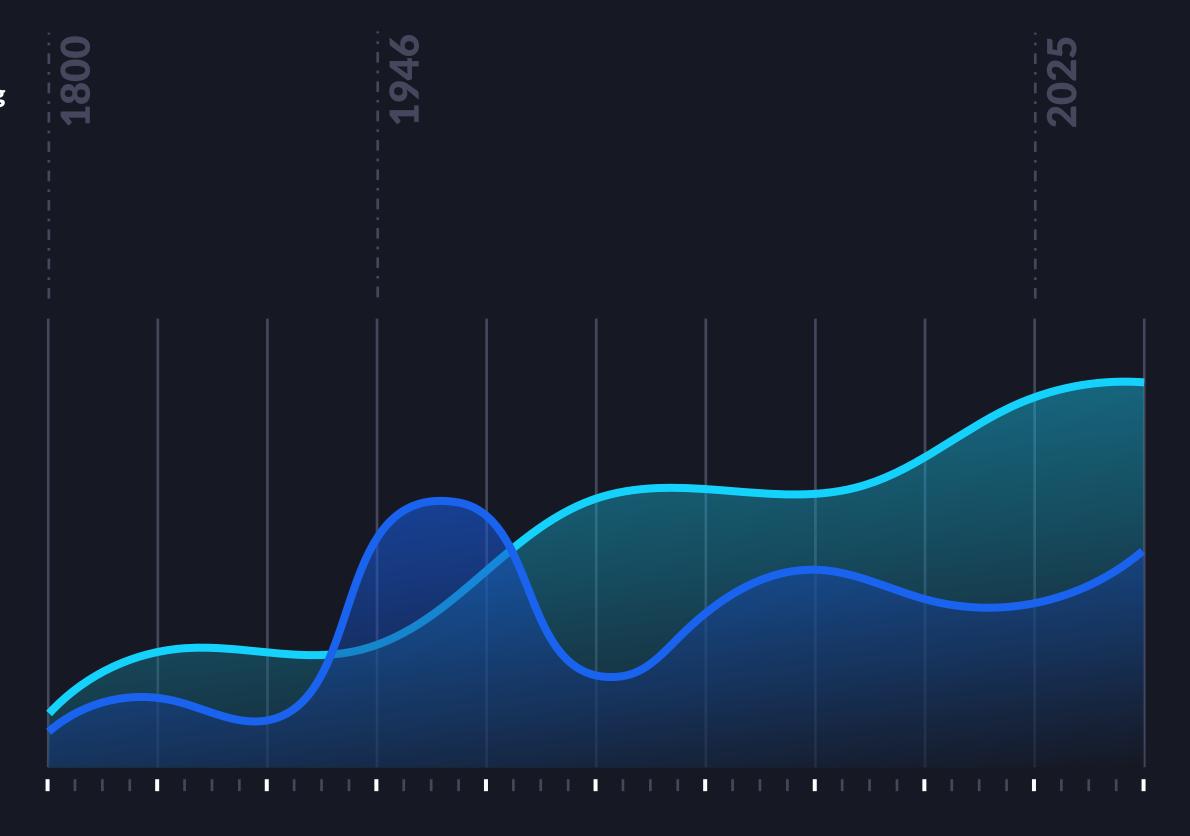
Weather Modification History was created to inform the public of the extensive history of weather modification experiments. Our goal is to increase public awareness and debate about the moral and legal implications of today's multi-billion dollar weather control industry and the coming global governance of sunlight-blocking geoengineering schemes. This website will empower you to take action and raise awareness of the little known but lengthy history of weather modification and the men who dare attempt it.

The <u>Star Wars section</u> on Weather Modification History Also be sure to check out:

HAARP and the Sky Heaters on ClimateViewer News

Articles on Ionospheric Heaters on ClimateViewer News

Atmospheric Sensors & EMF Sites on ClimateViewer 3D











CLIMATEVIEWER NEWS

BLOG

POLLUTION: Map polluted locations worldwide, gather facts on those affected, and use those facts to combat polluters' public relations (PR).

PRIVACY: Raise awareness of technology used to monitor, mock, and silence activists who dare attempt to combat climate change, today.

PROPAGANDA: Educate others on perception management, public relations, and other mass media mind-control techniques used against you, the reader.

CLIMATEVIEWER 3D

MAP/GLOBE

ClimateViewer 3D is your source for geophysical monitoring and personal education with live imagery on a gorgeous 3D globe or a mobile-friendly flat map. ClimateViewer features an encyclopedic list of exclusive maps resulting in thousands of hours of personal educational bliss not found anywhere else on the internet, let alone in one place.

WEATHERMODIFICATIONHISTORY

TIMELINE

The world's most comprehensive weather control archive with hundreds of verified historical facts, images, and videos.

WMH's compelling evidence is easy to browse, exceedingly accurate, and encyclopedic in scope. This website was crafted by dedicated individuals to help you discern fact from fiction with meticulously organized research that offers the activist community a credible compendium.





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I am James Franklin Lee Jr. (Jim Lee) and I help people understand complex ideas by creating maps, timelines, articles, and lectures. I am going to talk about Pollution, Privacy and Propaganda every chance I get because they interest me, affect us, and I care about our Planet. ClimateViewer News is my blog and the central location for all of my research.

I am forever a Boy Scout, lifetime artist, nocturnal programmer, music is my life, love is my religion, and I am the luckiest husband and father on Earth. I speak for the trees. I have a passion for mapping, magnets, and mysteries.

I have devoted the last seven years of my life to understanding and reporting the truth about the lengthy history of weather modification. I represented people like myself at the EPA's hearing on aviation pollution in August 2015, lectured at Ed Griffin's conference Global Warming: An Inconvenient Lie in December 2016, and my research has been referenced on many prominent websites, including the Comprehensive Nuclear-Test-Ban Treaty Organization (CTBTO), Canadian Geophysical Union, MIT, Harvard, and the United Nations.

ABOUT JIM LEE

