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Topic: Russian Woodpecker facility... (Read 2097 times)

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Russian Woodpecker facility...

« on: June 13, 2010, 06:41:53 AM »

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One of two Duga-3 arrays, this one deep in the Chernobyl Zone of Alienation. Photo by Wikimedia user Necator, taken in January of 2003 and released to the public domain.

April 26th is the anniversary of the Chernobyl disaster, and twenty-four years after the accident the area around the plant is still a wasteland. Everyone who lived in the area was evacuated in the days following and, by and large, they have not been allowed to return (though reportedly a few elderly residents have given in to homesickness and come back to live a clandestine life). The so-called Zone of Alienation extends for thirty kilometers in every direction, and severe fallout conditions existed even outside that. The nuclear plant itself is a silent monument to the Soviet era, but it just so happens that it's not the only mysterious site abandoned because of the accident.

In July 1976, shortwave radios throughout the world started picking up signals in the 4 to 30 MHz range, signals that were so powerful that even commercial airliners and telephone circuits in Europe could pick them up—with resulting difficulties in communication. The signal was a sharp set of pulses, up to twenty per second (though usually ten) that was reminiscent of a woodpecker when played over a speaker (sound file). The interference was accordingly dubbed the Russian Woodpecker, as amateur radio enthusiasts quickly triangulated the source to an area in what was then the USSR (in the modern day this is in the "three-corners" region where Ukraine, Belarus, and Russia meet).

Initial theories to explain the interference—discounting the crazy ones, as the Woodpecker arrived during the mid-1970s UFO craze—assumed that it was deliberate, part of a Soviet plan to jam Western radio, but it soon became clear that Warsaw Pact stations were affected by the Woodpecker too. It was a side effect of something else, though it wasn't at first clear what.

The problem was solved when a second Woodpecker appeared in far Eastern Siberia, on the shores of the Amur River near the Pacific Ocean. If one assumed the first Woodpecker was a radar signal, it could reach as far as the central United States; the second Woodpecker was in just the right spot to give coverage to Alaska and the west coast of the US outside of the first one's range. And there was reason to assume it was a radar signal: the frequency of the signal was in the middle of the shortwave band, the only radio frequencies that are regularly able to bounce off the Earth's ionosphere and so travel long distances without drifting off into space.

Like all other electromagnetic radiation radio travels in straight lines when unimpeded. Since the Earth is not straight, past a certain distance the curvature of the Earth's surface hides objects on or near the surface. The higher the radar source, the further one can see before this happens—this is one of the reasons why, until recently, the tallest man-made structures in the world were radio transmitters like the CN Tower or the now-defunct Warsaw Radio Mast—but for every extra kilometer of desired range a line-of-sight radar tower has to add an ever-increasing amount of height and it rapidly becomes unfeasible to build.

The solution is to use over-the-horizon (OTH) radar instead. This is trickier to do as, while shortwave frequencies will bounce off the ionosphere (and so roughly follow the curve of the Earth instead of a straight line), each bounce depends on the reflectivity of the ionosphere or, on the next reflection, of the ground—and that's never perfect. Every bounce loses some energy and makes the return signal that much weaker. For that matter, the resolution of any radar depends on the length of the radio wave it uses; the only radio waves that are reflected off the ionosphere are relatively long, and the level of detail OTH radar shows is measured in kilometers. Not very good, but if you have an urgent strategic need to look over continental distances to see if a wave of nuclear missiles has been launched at you...that the Woodpecker was a Soviet OTH radar watching the US seemed likely.

As it happened, NATO had already figured this out on their own; in some documents the Woodpecker is called "Steel Yard" instead, which was NATO's code name for it, but as that name was much less public than the ham enthusiast discussion, "Russian Woodpecker" won out in the end. What the NATO intelligence community did have was more details about the program. Their name for the project wasn't random, as they had noticed an immense rectangle of metal girders and wires, 150 meters tall and a kilometer wide, going up not far from the then-obscurer Chernobyl nuclear plant. It was facing north-northwest, the direction from which an American nuclear strike would come, and looked as if it would be able to detect the effect of hot rocket exhaust plumes on the ionosphere—effects large enough to circumvent the low resolution of the radar. A small town, one of the many the USSR worked very hard to keep off maps, named Chernobyl-2 was built around its base and housed approximately 1000 military and technical personnel to run the site.


The USSR refused to own up to the Russian Woodpecker, even though it was using frequencies set aside for civilian use. For a while, loosely organized bands of ham radio operators actually worked to spoof the Woodpecker out of frustration that their frequencies were being spammed. They could sometimes get it to change frequency away from their own

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 **Re: Russian Woodpecker facility...**
« **Reply #1 on:** June 13, 2010, 06:47:04 AM »

The Russian Woodpecker was a notorious Soviet signal that could be heard on the shortwave radio bands worldwide between July 1976 and December 1989. It sounded like a sharp, repetitive tapping noise, at 10 Hz, giving rise to the "Woodpecker" name. The random frequency hops disrupted legitimate broadcast, amateur radio, utility transmissions, and resulted in thousands of complaints by many countries worldwide.

The signal was long believed to be that of an over-the-horizon radar (OTH) system. This theory was publicly confirmed after the fall of the Soviet Union, and is now known to be the Duga-3[1] system, part of the Soviet ABM early-warning network. This was something that NATO military intelligence was well aware of all along, having photographed it and given it the NATO reporting name Steel Yard.

Hide History

The Soviets had been working on early warning radar for their anti-ballistic missile systems through the 1960s, but most of these had been line-of-sight systems that were useful for raid analysis and interception only. None of these systems had the capability to provide early warning of a launch, which would give the defenses time to study the attack and plan a response. At the time the Soviet early-warning satellite network was not well developed, and there were questions about their ability to operate in a hostile environment including anti-satellite efforts. An over-the-horizon radar sited in the USSR would not have any of these problems, and work on such a system for this associated role started in the late 1960s.

The first experimental system, Duga-1 (47.075000°N 31.650000°E [2][3]), was built outside Mykolaiv in Ukraine, successfully detecting rocket launches from Baikonur Cosmodrome at 2,500 kilometers. This was followed by the prototype Duga-2, built on the same site, which was able to track launches from the far east and submarines in the Pacific Ocean as the missiles flew towards Novaya Zemlya. Both of these radar systems were aimed east and were fair low power, but with the concept proven work began on an operational system. The new Duga-3 systems used a transmitter and receiver separated by about 60 km.[4]

Appearance

Starting in 1976 a new and powerful radio signal was detected worldwide, and quickly dubbed the Woodpecker by amateur radio operators. Transmission power on some woodpecker transmitters was estimated to be as high as 10 MW EIRP.

Triangulation quickly revealed the signals came from Ukraine. Confusion due to small differences in the reports being made from various military sources led to the site being alternatively located near Kiev, Minsk, Chernobyl, Gomel or Chernihiv. All of these reports were describing the same deployment, with the transmitter only a few kilometers southwest of Chernobyl (south of Minsk, northwest of Kiev) and the receiver about 50 km northeast of Chernobyl (just west of Chernihiv, south of Gomel). Unknown to civilian observers, NATO was well aware of the new installation, which they referred to as Steel Yard.

Civilian identification

Even from the earliest reports it was suspected that the signal were tests of an over-the-horizon radar.[5], and this remained the most popular theory during the cold war. Several other theories were floated as well, including everything from jamming western broadcasts to submarine communications. The broadcast jamming theory was debunked early on when a monitoring survey showed that Radio Moscow and other pro-Soviet stations were just as badly affected by woodpecker interference as Western stations.

As more information about the signal became available, its purpose as a radar signal became increasingly obvious. In particular, its signal contained a clearly recognizable structure in each pulse, which was eventually identified as a 31-bit pseudo-random binary sequence, with a bit-width of 100 μ s resulting in a 3.1 ms pulse.[6] This sequence is usable for 100 μ s chirped pulse amplification system, giving a resolution of 15 km (10 mi) (the distance light travels in 50 μ s). When a second Woodpecker appeared, this one located in eastern Russia but also pointed toward the US and covering blank spots in the first system's pattern, this conclusion became inescapable.

In 1988, the Federal Communications Commission conducted a study on the Woodpecker signal. Data analysis showed an inter-pulse period of about 90 ms, a frequency range of 7 to 19 MHz, a bandwidth of 0.02 to 0.8 MHz, and typical transmission time of 7 minutes.

The signal was observed using three repetition rates: 10 Hz, 16 Hz and 20 Hz. The most common rate was 10 Hz, while the 16 Hz and 20 Hz modes were rather rare. The pulses transmitted by the woodpecker had a wide bandwidth, typically 40 kHz. Jamming

One idea amateur radio operators used to combat this interference was to attempt to "jam" the signal by transmitting synchronized unmodulated continuous wave signals, at the same pulse rate as the offending signal.[7] They formed a club called the Woodpecker Hunting Club.[8]

Simple CW pulses didn't appear to have any effect. However, playing back recordings of the woodpecker transmissions sometimes caused the woodpecker transmissions to shift frequency leading to speculation that the receiving stations were able to differentiate between the "signature" waveform of the woodpecker transmissions and a simple pulsed carrier.[9]

As well as disrupting shortwave amateur radio and broadcasting it could sometimes be heard over telephone circuits due to the strength of the signals. This led to a thriving industry of "Woodpecker filters" and noise blankers.

Disappearance

Starting in the late 1980s, even as the FCC was publishing studies of the signal, the signals became less frequent, and in 1989 disappeared altogether. Although the reasons for the eventual shutdown of the Duga-3 systems have not been made public, the changing strategic balance with the end of the cold war in the late 1980s likely had a major part to play. Another factor was the success of the US-KS early-warning satellites, which entered preliminary service in the early 1980s, and by this time had grown into a complete network. The satellite system provides immediate, direct and highly secure warnings, whereas any radar-based system is subject to jamming, and the effectiveness of OTH systems

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 **Re: Russian Woodpecker facility...**
« **Reply #2 on:** June 13, 2010, 06:51:34 AM »

Weapons of Mass Destruction (WMD)

Steel Yard OTH

The Soviet Union began work on over-the-horizon [OTH] radar in the late 1950s, given the potential of this technology to surpass the range of conventional early warning radars. The focus was on backscatter radars that would provide warning of missile launches by detecting alterations in ionosphere propagation caused by the depletion of ions by missile exhaust plumes. These radars had to reliably detect group and mass launches of intercontinental ballistic missiles from the territory of the US. The radars are reportedly known as STEEL YARD or STEEL WORKS by the Western intelligence community, the code name derived from their large intricate girder construction.

The Duga-2 experimental model over-the-horizon radar, designed in 1970 by Chief Designer F. Kuzmin, was successfully tested using launches of domestic ballistic missiles from the Far East and Pacific Ocean to the testing ground on Novaya Zemlya. The radar, built near Nikolaev [Nikolaev] near the Black Sea in Ukraine [almost certainly not in the Caucasus mountains, as suggested by one source] included 26 huge transmitters (each one the size of a two-story building) assembled by the Dnepropetrovsk machine building plant. The transmitting antenna was 210 meters wide and 85 meters high. The receiving antenna was 300 meters wide and 135 meters high. The antenna field housed 330 transmitters of about 15 meters each. This over-the-horizon radar became operational on 07 November 1971. Some sources report that a new radar was built at Nikolayev in the early 1980s to monitor Chinese missile tests, though it is unclear what if any relationship this installation has with the prototype tested in the early 1970s. Some reports suggest that this installation, said to be smaller and lower-power than the radars at other sites, may never have gone on line.

This facility was apparently located at 47°04'30"N 31°39'00"E, about 20 km Northwest of the major city of Nikolaev [46°58'N 32°02'E].

The positive results of the initial tests were achieved for a middle-latitude route and in a relatively quiet ionosphere. The development program faced a number of challenges, including the limitations of Soviet computer technology for signal processing. The operational requirement that the system detect American ICBM launches mandated backscatter propagation across north pole, where the Aurora Borealis induces substantial fluctuations in ionospheric properties.

The Steel Yard OTH began operations in 1975-1976. The exact location of this radar is obscure. Many sources report that it was located "near Kiev" while others state that it was "at Gomel, Belarus" [52°26'30"N 030°59'00"E], or "Gomel in Belarus near Chernobyl, approximately 175 mi (150 nm; 280 km) SE of Minsk" or "at Minsk." One source claimed it was located "at a distance of less than 10 km from the operational Chernobyl reactors" [51°16'N 030°14'E] and others claiming it is "near Chernigov" [Chernihiv PPL 51°30'00"N 31°18'00"E]. Some reports claim that the use of Direction Finding equipment traced the signals to the area of Gomel, Russia, or to "a site southeast of Minsk".

Transmitting on frequencies variouly reported as being between 3.26 and 17.54 megahertz and 4 to 30 MHz, with the actual frequency depending on the maximum-usable-frequency (MUF) for propagation. Typically, at dawn the transmissions were between 14 and 22MHz and by 3 PM. they were at 14MHz or lower. The radar is variously reported as having output power between 20 to 40 MW [though some sources suggest rather less plausibly a power level of 2 MW]. The signal is pulse-modulated at a rate of several times a second [most sources state 10 pulses per second], sounding like a woodpecker. The radar was observed using three repetition rates: 10 Hz, 16 Hz and 20 Hz. The most common rate was 10 Hz, while the 16 Hz and 20 Hz modes were rather rare. The pulses transmitted by the woodpecker had a wide bandwidth, typically 40 kHz.

This powerful Soviet radar signal was quickly dubbed the "Russian Woodpecker." When it first began operations, the transmitter interfered with several communications channels, including emergency frequencies for aircraft on transoceanic flights. Subsequently the operational practice was modified so that the radar skipped these critical frequencies as it moved across its operational spectrum. Noise limiters installed by shortwave ham operators eliminated the "Russian Woodpecker" interference. Such noise blankers, designed to cope with interference such as the Russian 'woodpecker' that was common in the 1980s, cleans up most forms of pulse noise.

When the transmissions were first detected in the West, some suggested that the Soviets were developing a new radio system for communicating with strategic submarines. Others suggested that it was designed to detect and track low-flying aircraft or missiles. Far less plausible theories extended to suggestions the Soviets were trying to modify the weather; experimenting with radio waves to control human behavior; or developing a weapon to shoot down nuclear-tipped missiles.

This installation was reportedly abandoned after but was put out of service by the Chernobyl nuclear reactor explosion in 1986, though other reports claim it has remained operational.

Another over-the-horizon radar of this type was built at Komsomolsk-na-Amure [certainly not Nikolayevsk-na-Amur as reported by some sources -- the NIMA GeoNet NameServer is unaware of the "Nikolayevsk-na-Amur" placename]. Along with the facility at Kiev, the other Steel Yard located at Komsomolsk-na-Amure provided complementary coverage of the United States. According to some reports, the Komsomolsk-na-Amure installation was taken off combat alert duty in November 1989, and some of its equipment was subsequently scrapped.

By 1980 the Russians were reportedly operating three OTHR transmitters, including two OTHR transmitters near Kiev and Minsk, and a third transmitter in Siberia focused on their northern flank which became operational in 1979. By the mid-1990s at least the two radars located in Ukraine appeared to have been deactivated, since their continued maintenance did not figure in the negotiations between Russia and Ukraine over the active early warning radars at Mukachevo and Sevastopol.


A fourth OTH-B of a different design was reportedly constructed in the 1980s Nakhodka [sometimes incorrectly spelled Nakhoda] on the coastal of the Sea of Japan. It is unclear which location this refers to, since there are several places with this name, including Nakhodka [51°35'40"N 157°48'30"E] on the Pacific coast of the Kamchatka Peninsula, but the most probable locations seems to be Nakhodka [42°50'49"N 132°57'39"] near Vladivostok. This radar was reportedly intended to monitor shipping, aircraft and ballistic missile movements in the area between the coast of China and the island of Guam. The location and ascribed mission of this radar strongly suggest that it unrelated to the STEEL YARD family, but is rather the much smaller "Irida" Over-The-Horizon Surface Wave (OTH-SW) radar. This radar is capable of surface vessel detection at ranges of 280-300 km, depending on sea state and size of vessel. The transmitter complex has a maximum pulse power output of 64 kW in the HF frequency range, with separate transmit and receive complexes positioned 500 to 1,500 m apart.

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 **Re: Russian Woodpecker facility...**
« **Reply #3 on:** June 13, 2010, 06:54:53 AM »

Not an avian at all, the Russian Woodpecker was the vast, faceless and distant enemy of most of the users of shortwave radio in the Western World for eight or nine years, beginning in 1976. Folks were going about their electronic business in North America one day (July 4, 1976. Bathe in the snark), talking to airplanes, ships, each other - and all of a sudden, an enormous stuttering noise slammed down onto an entire range of frequencies. The signal was monstrously powerful, and was heard on wide bands (up to 40 KHz across) on several frequencies in the shortwave bands. It manifested as a harsh, rapid clicking or tapping.

Andy Clark, call sign W4IYT, was at the time working for a commercial aeronautics radio company. It maintained communications links between commercial aircraft and their owners, allowing airlines and the like to speak directly to their airplanes while aloft. In a 1999 interview with the Miami Herald, he claims that he named the phenomenon 'woodpecker' for the sound. While talking to his home office, he asked if they, too were getting an awful loud 'woodpecker' noise on their airwaves. They confirmed it.

What was it determined to be at the time?

The 'woodpecker' was fairly quickly tracked back, using RDF, to two sites inside the Soviet Union. Analysis of the pulses, as well as the behavior of the signal (times of day, attenuation, etc.) indicate that the 'woodpecker' was the signal of an extremely large OTH-B radar system. This system was, presumably, being used by the Soviets as a long-distance air-search radar to warn them of inbound bomber and cruise missile attack travelling over the North Pole.

It was tracked to two sites because, like many extremely powerful radar systems, processing the radar return data was much easier if the transmission and reception points were widely separated, rather than having to filter the full strength of the emissions from an adjacent transmitter. The sites were near Minsk and Nicolaev, and were likely operated by PVO Strany as early warning systems.

Why was it a problem?

It was a problem for Western operators because the Soviets had chosen to use a set of frequencies which had been set aside for civilian use by international agreement. They didn't care, of course. Hams and companies pushed the U.S. Government (and the British Government, and the Canadian government) into formally protesting to the U.S.S.R. about the woodpecker's presence. However, the Soviet Union would never even officially acknowledge the presence of the woodpecker, much less that it was their doing - in much the same way the U.S. government refuses to acknowledge the existence of Area 51. Since they wouldn't own up, protests were pointless.

'The Russian Woodpecker,' as it came to be known, would appear when the atmospheric conditions over the northern hemisphere were conducive to shortwave relaying - shortwaves travel around the world (rather than straight into space) by bouncing off the ionosphere and then the ground, 'rebounding' their way around the planet. These did the same thing. Not only did it invade voice transmissions, but harmonics caused pulsing static on television signals, made more problematic by the lack of modern filtering electronics on most television sets at the time. For a while, electronics companies in the West even began selling 'Woodpecker Killers' - damping and filtering devices that would, when connected inline with commercial radio and television antennas, damp out the characteristic steady pulsing of the woodpecker's signal. These worked with varying degrees of success, as the woodpecker was wily, and jumped around a bit as the Soviets adjusted the system for best resolution. Eventually, the Soviets did modify the operating parameters of the radar to avoid the most commonly used aircraft emergency frequencies, which didn't calm down the ham community.

What Did the Signal Look Like?

Lots of folks in the civilian ham radio community hauled out oscilloscopes and wideband receivers and had a good gander at the woodpecker. Some did so out of curiosity, some did so while finding ways to damp it out. A few, however, did so with an eye to defeating it (more on that in a moment). So doing, they left us with fairly good data on what the signal looked like. The majority of the following data is from an article reprinted on the web from the ham radio magazine "Monitoring Times", and was originally published in 1985.

At the grossest level, the signal varied in its pulse rate - not the frequency it travelled on, but the rate of the signal pulses heard. Although it was observed at 10, 16 and 20 Hz, it operated nearly all of the time in a 10 Hz mode. The pulses were centered around four different frequencies at any given time; typically, it wandered around the low MHz range. The example given in the article has it observed using 16490, 16450, 16490 and 16570 KHz.

There were two observed main 'operating modes', named 'static' and 'dynamic' by western observers. In static mode, the woodpecker would transmit four pulses, one on each of the four operating frequencies, in four adjacent 7 ms windows. The pulses themselves were of unknown shape and length, as they were hashed by the bounces and the like, but their observed length varied between 3 and 6 ms. Then there would be a 72 ms silent period, and the cycle would begin again. This produced the 10 Hz pulse - 7ms + 7ms + 7ms + 7ms + 72ms = 100ms, or one-tenth of a second. So it was actually producing four separate 10 Hz pulses, offset by approximately 7 ms in time and a few tens of KHz.

In 'dynamic mode', the woodpecker would step through four different frequency-to-window assignment patterns over a six-second cycle. That is, if we label the operating frequencies of the moment A, B, C and D then the cycle might look like this:

seconds 1-6:

(window 1) A (window 2) B (window 3) C (window 4) D

seconds 7-12:

(window 1) B (window 2) C (window 3) D (window 4) A

seconds 13-18:

(window 1) C (window 2) D (window 3) A (window 4) B

seconds 19-24:

(window 1) D (window 2) A (window 3) B (window 4) C


Some dedicated listeners eventually became able to determine what operating mode the Woodpecker was in just by the Mark One Earhole, but even so the modes and frequencies would change at random, occasionally to previously-unseen ones. This tended to drive operators crazy, since it was just not possible to 'stake out' a quiet frequency for use when the Woodpecker was out and about.

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 **Re: Russian Woodpecker facility...**
« **Reply #4 on:** June 13, 2010, 07:07:24 AM »

ELECTROMAGNETIC END TIMES DEVASTATION

The deluge that inundated Georgia, Alabama, and Florida in July, 1994 is "a flood that might happen once in 500 years reported the 7/9/94 NEW YORK TIMES. Unlike a regular storm that keeps moving, this monster came ashore and parked in the same area for many days.

"The storm was kept in place largely by a big Bermuda high-pressure system over the Atlantic (which) was part of a subtropical band of high pressure systems girding the globe. Other parts of the band caused Northern India, and then the American Southwest, to broil in temperatures of 120 degrees and more last month. EXTREMES OF WEATHER HAVE BECOME MORE COMMON AROUND THE WORLD IN THE LAST DECADE, BUT SCIENTISTS ARE AT A LOSS TO EXPLAIN WHY." (7/10/94 NEW YORK TIMES).

These long standing weather blocking systems are the direct product of giant standing ELF (Extremely Low Frequency) waves that are created by Russian and U.S. global weather engineering that began in 1976 and greatly expanded in the 1980's.

"The extreme weather of the last two years in North America is part of a worldwide pattern, scientists say and they are searching hard for an explanation. The United States has suffered through the extra cold summer that chilled the Northeast in 1992; Hurricane Andrew in August, 1992, the most destructive American hurricane ever; the East Coast 'storm of the century' in March, 1993; the devastating flooding in the upper Midwest last summer; and the seemingly unending snows of early 1994 in the Northeast, accompanied by record warmth in the West."

"All are part of a global pattern of sharper climatic swings over about the last decade say climatologists. Around the world, the 1980's and early 1990's were remarkable for the frequency and intensity of extremes of weather and climate," (5/24/94 NEW YORK TIMES).

Insurance statistics demonstrate the devastation created by the combined effects of Soviet and U.S. Weather engineering: There were only 8 catastrophic windstorms worldwide in the 1960's. By the 1980's, that figure had climbed to 29.

RUSSIAN SCIENTISTS SELLING
WOODPECKER TECHNOLOGY TO SECRET U.S. LAB

Starting in the late 1960's, U.S. and Soviet scientists began a series of joint efforts to warm up the Arctic (documented in Lowell Ponte's 1976 book, THE COOLING). At the 1974 Vladivostok Summit, U.S. and Soviet leaders concluded a secret agreement designed to promote global warming. On July 4, 1976, the Soviet Woodpecker ELF system began weather engineering operations. By the late 1970's, the United States joined in by transmitting its own weather modifying ELF signals.

To improve joint electromagnetic weather control actions, the U.S. has just brought a number of Russian scientists to work at the top secret Lawrence Livermore high tech weapons laboratory. The real purpose of this new joint Russian / U.S. project is being kept secret from the American people. It is officially disguised as "environmental cleanup research."

The plan to use Russian technology was described in the 4/8/93 JOURNAL OF COMMERCE & COMMERCIAL BULLETIN: "During the Cold War, in a research laboratory in the closed city of Gorky, Russian military scientists developed the 'Gyrotron' - a high energy microwave generator designed to sweep the sky of Western warplanes." (This description is identical to some functions of Soviet Tesla scalar weapons.)

"Today, at the Lawrence Livermore National Laboratory, American military scientists are weighing a Russian proposal to use those generators for a new mission - cleansing the atmosphere of ozone destroying chemicals. The Livermore scientists began collaborating with their Russian counterparts last year, traveling to Russian research centers, engaging in joint projects..."

"A technique to clean up the atmosphere could offer just such an opportunity. The proposal comes from Soliton Co. Ltd a Russian Corporation formed to convert and commercialize Soviet science and defense technology."

(The name of that Russian corporation offers a key clue as to the real nature of the proposed project. Soliton's are a concept in physics for fields that demonstrate prolonged existence - THE GIANT STANDING WAVES that are created by the Russian Tesla Magnifying Transmitters.)


"Some of the Russian science the Soliton Company has to offer is very much the state of the art. ...Andrei Tulupov, a Russian weapons researcher and a Soliton Company official, recently spent a week briefing Livermore scientists on a number of possible research projects, including USING MICROWAVE RADIATION TO ELIMINATE CHLOROFLUOROCARBONS (CFC's), an artificial chemical suspected of damaging the earth's protective layer. In developing their high-powered microwave equipment, the Russian scientists discovered the beams destroyed chlorofluorocarbon molecules."

The new HAARP weather-engineering system, now under construction in Alaska, will have (among its numerous functions) the clear capacity to zap pollution and will also be able to increase or decrease upper atmospheric ozone levels at will.

(HAARP, Alaska, 2001)

The 1/11/94 TULSA WORLD provided additional evidence about the presence of the Russians at Livermore: The Lawrence Livermore Laboratory has a secret 21 member "PROJECT WOODPECKER" team that just won a special award from the CIA and the National Security Agency (NSA).

Since the late 1970's, the meaning of the term "Woodpecker" has had been well known to radio operators all over the world. Because the primary mission of the NSA is to intercept radio signals from every foreign nation, that super-secret organization is fully aware that the term "Woodpecker" specifically refers to Russian Woodpecker Tesla Magnifying Transmitters that are used for weather engineering (and for many other weapons functions).

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 **Re: Russian Woodpecker facility...**
« **Reply #5 on:** June 13, 2010, 07:10:00 AM »

Electromagnetic Weather Altering

Part 2 of 2 - Go to 1 | 2

HAARP SYSTEM THREATENS GOD GIVEN
EXTERNAL MAGNETIC BELTS THAT SHIELD EARTH

Demonstrating the grave danger to this planet's natural geomagnetic stability, the 1987 Eastlund patent (which is the basic design of the HAARP project) stated: "THE EARTH'S MAGNETIC FIELD COULD BE DECREASED OR DISRUPTED AT APPROPRIATE ALTITUDES TO MODIFY OR ELIMINATE THE MAGNETIC FIELD..."

Richard Willams, a physicist at Princeton, stated that he thinks the Eastlund (HAARP) device "might become a serious threat to the earth's atmosphere" and "could cause irreversible damage. ... Effects in the atmosphere cannot be localized. ... The language of the patent indicates that it is clearly intended to provide effects on a global scale," (3/88 OMNI MAGAZINE).

The 2/94 COOK INLET (Alaska) MONTHLY BUSH BLADE carried a number of detailed articles about the destructive effects of the HAARP system:

The late geomagnetic researcher Lloyd Zirbes strongly opposed the technology utilized in the HAARP system. He wrote: "Disruption of earth's magnetic field will complete damages to the planet's balance done by government nuclear bomb blasts in the natural radiation belts above the ionosphere. EARTH'S MAGNETIC FIELD KEEPS THE PLANET IN BALANCE WITH THE MOON AND SUN" (T. E. Bearden says the same thing—page 😊. "Disrupting the field will be the last straw in sending earth into the sun or out into space."

"...Ionospheric warming (such as created by the HAARP transmitters) can't fail to effect the land mass below. Total result will force POLAR ICE-CAPS TO START MELTING," - a goal which U.S. and Soviet scientists have been jointly and secretly working towards since the late 1960's.

MAGNETIC EARTH

The 1/24/85 PBS Television show, "The Nature of Things," reported: A "magnetic force comes from the liquid core of the planet and forms an envelope around it from pole to pole. ... A great many processes on earth - life processes, and even our weather and climate may be affected by the fact that THE EARTH IS AN ENORMOUS MAGNET."

"... As the earth rotates, aligned with its axis, it is an all enveloping field of force. ... The (earth's) magnetic field is constantly on the move." The field of the earth looks very much "like the magnetic pattern around the bar magnet. It's called a dipole field."

"...To give an idea of how it works, the lines of force of the dipole field of earth at the surface...extend down through the core, through the liquid metal. So as this core churns about, it winds and wraps these lines of force and stretches them round and round and round with the passage of time. And in fact, you eventually get a field wrapped up in the (earth's) core."

"...The field is prevented from dying away by the constant regenerating motions of the liquid core. THE EARTH'S CORE IS A DYNAMO. The fluid motions are very slow, but are still able to generate the field. It's over such a large scale, that it's able to manufacture the field."

"... If you watch the field closely, you discover that there are patterns in its variations. In addition to the slow churning of the field (generated by the core), there are continuous regular cycles."

"...Every day at noon, the field strength rises and then dips. The magnetic record is like a clock, and it also follows the seasons. ... When records are analyzed, a number of other regular cycles become immediately apparent: monthly cycles, cycles in phase with the ocean tides, regular peaks and troughs in the magnetic field -- which come not from the core, but from another - much weaker - dynamo. They're generated by A SYSTEM OF ELECTRIC CURRENTS FLOWING IN THE IONOSPHERE."

"As the ionospheric conductivity varies from night to day, and from winter to summer, the cyclic patterns are produced. And they are reinforced by even weaker dynamos, operating in the oceans. THE EARTH'S FIELD IS A COMPLEX PRODUCT OF ALL THE ELECTRICAL ACTIVITY WITHIN AND AROUND OUR PLANET."

"Understanding earthquakes, volcanoes and other geological phenomena depends largely on fathoming the forces at work within the planet's mantle, the thick layer of rock that stretches from the core to within an average of 30 miles of the surface. The behavior of the mantle seems to be determined by the core. THE MOLTEN CENTER ALSO ACTS AS AN ELECTROMAGNETIC DYNAMO, CREATING THE MAGNETIC FIELD THAT SHIELDS EARTH FROM THE HIGH - ENERGY PARTICLES THAT STREAM FROM THE SUN," (6/13/88 TIME MAGAZINE).

Artificial disruptions (such as created by the Russian Woodpecker transmitters and the new U.S. HAARP ELF system) dangerously interfere with both the earth's internal dynamo and the external, magnetic shield - thus exposing humans and animals to deadly high energy particles from the sun.

The 6/21/77 NEW YORK TIMES reported that the U.S. shipped a 40 ton magnet (the largest in the world at that time) and a team of American scientists to the Soviet Union. That 40 ton device could GENERATE A MAGNETIC FIELD 250,000 TIMES GREATER THAN THAT OF THE EARTH. The purpose of that shipment was to build a more efficient Magneto - Hydro - Dynamic power generator, which was used to greatly increase the power of the then new Soviet Woodpecker transmitters. This MHD power system helped the Russians REPEATEDLY OVERRIDE, BLANK OUT, AND INTERFERE WITH THE EARTH'S NATURAL MAGNETIC FIELD.'

The United States developed other powerful magnets, capable of disrupting earth's own natural magnetic field. The 1/88 POPULAR SCIENCE described huge new superconducting magnets: "The six D-shaped coils are each 20 feet tall and weigh about 40 tons. ... Each of the magnets reached peak magnetic fields of nine teslas, ABOUT 180,000 times the

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 **Re: Russian Woodpecker facility...**
« **Reply #6 on:** June 13, 2010, 07:19:42 AM »

Main Page Bariumblues.com

Electromagnetic Mind control

Disclaimer: This article is really sketchy. I'm posting it despite my reservations because aspects of it are fascinating and may encourage further investigation. Please trust your own judgment and do more research.

I question most everything in this article: the references to Andrija Puharich, the "pendulum expert", the "extraterrestrials", and also the "vaccine implants", nature of GWEN etc.

It's hard to find answers about these things!

But, here are a few things I have learned:

Andrija Puharich was a brilliant but questionable (even sinister) character. I include him in a special category with other shadowy types such as Steven Greer, Ingo Swann, Courtney Brown, Timothy Leary, and Thomas Bearden and many, many more. You really can't trust these guys.

Some are probably aware that they spread disinformation, while others naively let themselves be used as "assets". Maybe they were just really brilliant guys and going down the rabbit hole screwed them up too much. Often they are sort-of in-the-military, but also sort-of not-in-the-military. They may dabble in drugs or the occult. They may be interested in mind control. They may seem to work for the government and also against the government.

Sometimes they are being duped and used by nonhuman entities. Andrija Puharich was influenced by such entities. These beings have had many names: Aliens, Spirits, Etherians, Extraterrestrials, etc. I prefer to identify them as Jinn.

In modern times we naively assume that these beings come from other planets, but they've always visited us and they come from another "dimension" or "space" that is a part of this world we call Earth.

The entities may pretend that they come from another planet. Or they may refer to themselves as Space beings. "Space" doesn't necessarily mean the "Outer Space" of NASA. "Space" is also defined as: "the unlimited expanse in which everything is located", or "the boundless regions of the infinite". Well, that pretty much includes everything -- including those realms and dimensions which modernized western society is amazingly ignorant about. Seems like those jinn are having another big laugh at our expense. They do that all the time.

The jinn are quite often tricksters and liars. Some are demonic and like to frighten or debase and corrupt. They have free will like humans, so they can range from good to bad. However, the ones who confuse and mess around with us aren't likely to be good. The best approach is to avoid them. They love to pose as gods or masters-of-the-universe and create followings. They often make predictions (which don't come true). They are channeled by people who are willing to go into a trance and let strange, unknown entities take over their bodies and minds.

In the case of Andrija Puharich the entities were called "The Nine".

The extraterrestrials mentioned in this article were undoubtedly jinn.

There really is no such thing as a "pendulum expert". Pendulums can't be trusted for consistent, truthful or scientific responses.

I'm posting this article despite serious reservations. Please trust your better judgment and do more research!!
~~Lydia

Total Population Control

An overview of the ELF, GWEN towers, and HAARP inter-connection.

By Nicholas Jones From <http://educate-yourself.org/mc/mctotalcontrol12jul02.shtml>

Earth is wrapped in a donut shaped magnetic field. Circular lines of magnetic flux continuously descend into the North Pole and emerge from the South Pole. The Ionosphere, an electromagnetic-wave conductor, 100 kilometers [62 miles] above the earth, consists of a layer of electrically charged particles acting as a shield from solar winds.

Earth Resonant Frequency

Natural waves are created which result from electrical activity in the atmosphere. They are thought to be caused by multiple lightning storms. Collectively, these waves are called 'The Schumann Resonance', with the strongest current registering at 7.8 Hz. These are quasi-standing [scalar], extremely low frequency (ELF) waves that naturally exist in the earth's electromagnetic cavity which is the space between ground and the Ionosphere. These 'earth brainwaves' are identical to the frequency spectrum of our human brainwaves.


[Frequency nomenclature: 1 hertz = 1 cycle per second, 1 Khz = 1000cps, 1 Mhz = 1 million cps. Wavelength: A 1 Hertz wave has a wavelength that is 186,000 miles long, A 10 Hz wave is 18,600 miles long, etc. Radio-waves move at the speed of light (186,000 miles per second)]

HAARP

The Creator designed living beings to resonate to the natural Schumann Resonance frequency pulsation in order to evolve harmoniously. The Ionosphere is being manipulated by US government scientists using the Alaskan transmitter called HAARP, (High-Frequency Active Auroral Research Program) which sends focused radiated power to heat up sections of the Ionosphere, which bounces power down again. ELF waves produced from HAARP, when targeted on selected areas, can weather-engineer and create mood changes affecting millions of people. The intended wattage is 1,700 billion watts of power.

Geomagnetic Waves & GWEN

Sixty four elements in the ground modulate, with variation, the geomagnetic waves naturally coming from the ground.


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 **Re: Russian Woodpecker facility...**
« **Reply #7 on:** June 13, 2010, 02:21:41 PM »

The shocking history of Soviet Electromagnetic (EM) war attacks on the United States...

Lieutenant Colonel (Retired) Tom Bearden is the foremost Nikola Tesla researcher...

A nuclear engineer, war games analyst, and military tactician, Lieutenant Colonel Bearden has over 26 years experience in air defense systems, tactics and operations; technical intelligence, anti-radiation missile countermeasures; nuclear weapons employment, computerized war games; and military systems requirements.

He is currently with the Alabama division of a large aerospace company where he is involved in determining the future requirements for laser weapons.

Lieutenant Colonel Bearden obtained a Master of Science degree in nuclear engineering from the Georgia Institute of Technology and a Bachelor of Science degree in mathematics from Northeast Louisiana University. He is also a graduate of the U.S. Army Command and General Staff College and several U.S. Army artillery and missile schools.

He has had direct experience with tube artillery and with the Ajax, Hercules, Hawk, and Patriot missile systems and the production of technical intelligence on Soviet surface-to-air missile systems for the U.S. Army/Department of Defense.

Tom holds a Sandan (third degree black belt) in Yoseikan aikido; is a singer, guitarist and songwriter; member of Mensa, Society for the Investigation of the Unexplained, Vestigia, the American Association of Meta-Science: and is on the board of governors of the U.S. Psychotronics Association. In addition, he is Alabama Director of a small nonprofit foundation, the Association of Distinguished American Scientists and is a MUFON adviser on nuclear engineering.

He also edits *Specula*, Journal of the American Association of Meta-Science.

Tom is primarily active as a theorist on UFOs, parapsychological and paranormal phenomena, and psychotronics. He is the author of a book, *The Excalibur Briefing*, Strawberry Hill Press, 2594 15th Avenue, San Francisco, California 94127 and has numerous technical papers dealing with new paradigm physics, paranormal phenomena, and Soviet psychotronic weapons.

Finally, Bearden's *Solutions to Tesla's Secrets and the Soviet Tesla Weapons* promises to be recognized in the future as a major contribution to our present technology.

Lieutenant Colonel Bearden is the author of the follow article.

The shocking history of Soviet Russia's Electromagnetic (EM) war attacks on the United States...

In January 1960, Khrushchev announced the development of a new, fantastic weapon—one so powerful it could wipe out all life on earth if unrestrainedly used. The New York Times printed part of the story. Khrushchev, of course, was referring to the newly emerging scalar EM weapons. So in early 1960 the Soviets were in at least what we call the engineering development stage for large scalar EM beam weapons, which would be deployed when finished.

On May 1, 1960 Soviet defensive radars—rigged as prototype scalar EM beam weapons—probably downed Francis Gary Powers's high-flying U-2 reconnaissance plane over the Soviet Union, precipitating a major diplomatic incident. At the time, no Soviet surface to-air missile could reach the high-flying U-2, but of course it was extensively tracked on Soviet defense radars. Powers reported that a flash occurred behind his plane and persisted—almost certainly the signature of time reversed wave real-time holography. Eisenhower first denied, then was forced to admit, the photo-reconnaissance nature of Powers' mission when Khrushchev revealed that the Soviets had captured Powers alive. Khrushchev then cancelled a major summit meeting with President Eisenhower. Powers was imprisoned, and released in February 1962 in exchange for Rudolf Abel, a convicted Soviet spy.

In the fall of 1962, with his new super weapons nearing deployment, the ebullient Khrushchev could no longer contain his eagerness. He "jumped the gun" and attempted to change the international balance of power at a single stroke. The Soviets started inserting MRBMs—weapons which would blanket the U.S. like a glove—into Cuba at a feverish pace. From information clandestinely fed by Soviet Col. Oleg Penkovsky, John F. Kennedy was aware that Khrushchev's bombers and ICBMs were in woeful shape.***

***Penkovsky knew nothing of the Soviet Weapons program in energetics, using time-reversed EM radar wave weapons.

Not suspecting the Soviet super weapons, he knew that Khrushchev was bluffing—and proceeded to call the Soviet bluff precipitating the Cuban Missile Crisis. Khrushchev was caught with his pants down. His super weapons were not yet ready, and the U.S. could have easily destroyed the Soviet Union. Reluctantly he backed down and removed the missiles, after first blustering enough to get an agreement from Kennedy not to attack Cuba.

In the Communist world, this was a serious loss of face by Khrushchev. He knew his days were numbered unless he did something dramatic to recoup stature.

Accordingly, as soon as his new super weapons were deployed and ready, Khrushchev did that "something dramatic." On April 10, 1963 he destroyed the U.S.S. Thresher with one of his new weapons. Scalar EM (electrogravitational) beams, focused through the ocean to interfere on the Thresher under the surface, recreated spurious EM energy in the sub's electrical control circuits, jamming them so that the sub lost control, sank to crush depth, and imploded. Spurious electromagnetic "splatter" surrounding the immediate vicinity of the targeted area left a signature of intense EM interference with multiple systems and multiple frequencies of the U.S.S. Skylark, surface companion of the Thresher. This anomalous EM interference was so virulent that it required over 1-1/2 hours for the Skylark to transmit an emergency message back to headquarters that the sub had been lost.**** The death of the Thresher was Khrushchev's first blow.

**** Some electronic systems mysteriously malfunctioned, then later completely recovered spontaneously. This again is clearly a scalar EM weapon signature.

The next day, April 11, 1963, Khrushchev struck his second blow. Two deployed Soviet scalar EM weapons fired massive scalar EM pulses through the ocean. The two massive pulses met and interfered deep under the surface, 100 miles north of Puerto Rico. The resulting giant underwater EM explosion hurled a mushroom of water half a mile up into the air, and the anomalous explosion was observed (and later reported to the FBI and the Coast Guard) by the pilot and crew of a US. Jetliner passing nearby, enroute from Puerto Rico to Florida.

Thus we know the year—and indeed probably the very month—that Khrushchev's new "fantastic weapon" was deployed April 1963.


In the 1960s, Curtis detected a previously unknown, anomalous, weak electromagnetic radiation pattern over the ocean. This is the type of pattern consistent with the introduction of scalar signals with a small 'impure normal EM

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 **Re: Russian Woodpecker facility...**
« **Reply #8 on:** June 13, 2010, 02:23:47 PM »

Part 2 of 2

On Apr. 18, 1985 a Titan 34-D missile, launched from Vandenberg Air Force Base, blew up 5 seconds after launch. Video cameras inadvertently caught the Soviet marker beacon, used with the scalar EM howitzer that destroyed the Titan, up and above the explosion, moving independently. Engineer Ron Cole personally examined the video frame by frame and asserted that the hovering ball of light was completely separate. This positive signature leaves no doubt that the Soviets destroyed that missile also. The previous Titan 34-D missile launch there in August, 1985 also blew up just after lift-off.

On May 3, 1986 a NASA Delta rocket carrying a critically-needed weather satellite failed. The rocket suffered an anomalous "command-type" shutdown of its main engine during launch and began to veer off course, causing the range safety officer to destroy it. On a network video tape replay (several replays in succession), immediately after the loss of the rocket, this author observed that an anomalous light moved up from beneath the rocket and struck it, seconds before the destruction. Subsequent attempts to locate that particular videotape have met with failure. Several other persons were watching the replay with me at the time, and saw the anomalous light strike the rocket. The light plus the "internal command surges" are strongly indicative of time-reversed EM pulses and interferometry from a pumped phase conjugate mirror adjunct operating with an over-the-horizon tracking mode.

Also in May, 1986 a European Ariane missile was lost shortly after launch. There is at least one published news analyst report that the French Government concluded that the Soviets had interfered with the missile and caused its loss. No further evidence is available to this author regarding this incident, except one unevaluable report from a wealthy financier that when he visited the Soviet Union, the French President discussed that issue with Gorbachev.

In October, 1986, the Iceland Summit conference was held between Reagan and Gorbachev. The Soviets offered a breathtaking "zero-option" proposal, intended to lead to dismantling of most major strategic nuclear weapons, which would greatly ease the way to much more drastic employment of Soviet EM weapons. In short, if nuclear disarmament could be engineered, the U.S.'s "dead-man fuzing" against extensive employment of Soviet weapons would be almost eliminated. In that case, with its deployed, massive scalar EM weapons unleashed, the Soviet Union immediately holds the winning hand, and could rapidly proceed to dominate and control most of the earth. The Soviet offer was conditioned on the severe limitation of SDI to the laboratory, however, and Reagan balked at this. The reason for adamant Soviet insistence that the SDI genie must not be tested in space is that, should the U.S. develop scalar EM weapons—such as high energy scalar lasers—and deploy them as SDI modifications, the power would be enormously increased. With one or two shots, such a laser could devastate a whole republic of the USSR.* If tested in space, prototype SDI launch and deployment vehicles would be available, even though the SDI system was not yet completed and deployed. In that case, the U.S. could possibly quickly launch several scalar EM weapons in retaliation for Soviet strikes against the U.S.—and from space even one weapon could destroy the Soviet Union. Thus, unless the SDI genie is chained up in the lab, a Soviet scalar EM initiative to dominate the world would involve unacceptable risk to the Soviet Union. At this writing, Gorbachev has mounted a great propaganda campaign to try to stimulate U.S. citizens, scientists, and political activists to demand nuclear disarmament, clearing out the U.S. dead-man fuzing.

*Their EGPs, however would detonate nuclear warheads and nuclear facilities. The resulting fallout would devastate the earth. Such a use would be suicidal. But it would be a first-strike weapon, if a madman pulled the trigger.

During the spring of 1986, abnormally strong Soviet weather engineering occurred over the U. S., causing a drastic drought in the southeastern U.S. This drought was broken by a colleague who used an extremely powerful scalar EM device to redirect jetstreams. A most unusual and unique signature of the "blocking" against the Soviet scalar EM actions resulted: Two huge circulations developed in the atmosphere, clearly showed as two adjacent giant "holes" in the swirling cloud cover over the middle and eastern U.S. Between these two giant holes, the cloud circulations formed a stream of clouds, moving to the south, looking very: much like a giant vertical "bar" of a huge "Y-shaped" cloud flow.* Several national weathermen commented on this unusual pattern, which had not been observed before. The pattern continued, day after day, as the blocking continued.

* On the weather maps.

My colleague suffered a drastic illness and a serious operation, which interrupted the blocking operation. Immediately the jet streams changed back and serious drought returned to the southeast U.S., devastating a substantial portion of farm crops in the region. After some time, my colleague recovered sufficiently to resume blocking operations, breaking the drought and restoring the rains once again.

In latter October and early November, 1986, significant giant radial cloud patterns, associated with Soviet weather engineering using the scalar EM interference grid, were seen and photographed over California in the greater Los Angeles area. On Monday, Nov. 10, 1986 an anomalous, giant "fireball" was seen by hundreds of persons to move from west to east. It was seen over 4 states, and accompanied very sharp changes in the EM grid. An anomalous winter storm was in progress, with cold air spilling down from Canada. The storm penetrated very deeply southward, breaking cold records in a wide area of the mid-United States. At the same time, heat records were being broken in Florida, and generally throughout the southeast. Frank Golden verified by direct measurement that the electrogravitational field of the earth was agitated and most dynamic—in short, significant activity was being introduced by the Soviet scalar EM grid. (The activity was about half what it is when the Soviets are inducing an earthquake.)

On Wednesday, Nov. 12, 1986, the author photographed three giant radial cloud patterns—one a "twin"—in Huntsville, Alabama, associated with the anomalous storm, now labeled the "Siberian express" in many news reports.

On Thursday, Nov. 3, 1986 at Huntsville, the author observed another twin giant radial, gently moving along from west to east. At dusk, another single giant radial was observed at Huntsville. Also, air control radars along the corridor from Los Angeles to Arizona suffered a mysterious failure or "power outage" not long after the "meteor" incident. Reports were received from Montreal, Canada that anomalous TV interference was experienced in that area about the same time the air control radars experienced anomalous failure. This may show that the agent causing the radar failures and TV interference extended across a wide area of North America. Note that the normal intersection of the Woodpecker beams covers such a broad area of North America in the interference zone of the beams. The so-called "meteor" (actually, a large, rapidly moving light was seen and noise was heard) of Nov. 10 may well have been a large scalar EM ball from the Woodpecker grid weapon transmitters, performing a simulated test of the multiple-vehicle kill mode, using a large "electromagnetic missile" created and moved by the associated scalar howitzers. Complete explanation of the operation of these systems is contained in Fer-de-Lance and other books and papers.

As this background summary is cutoff in mid November 1986, it does not include evidence of indications that exist for

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