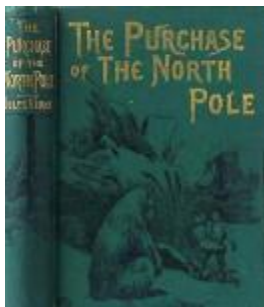
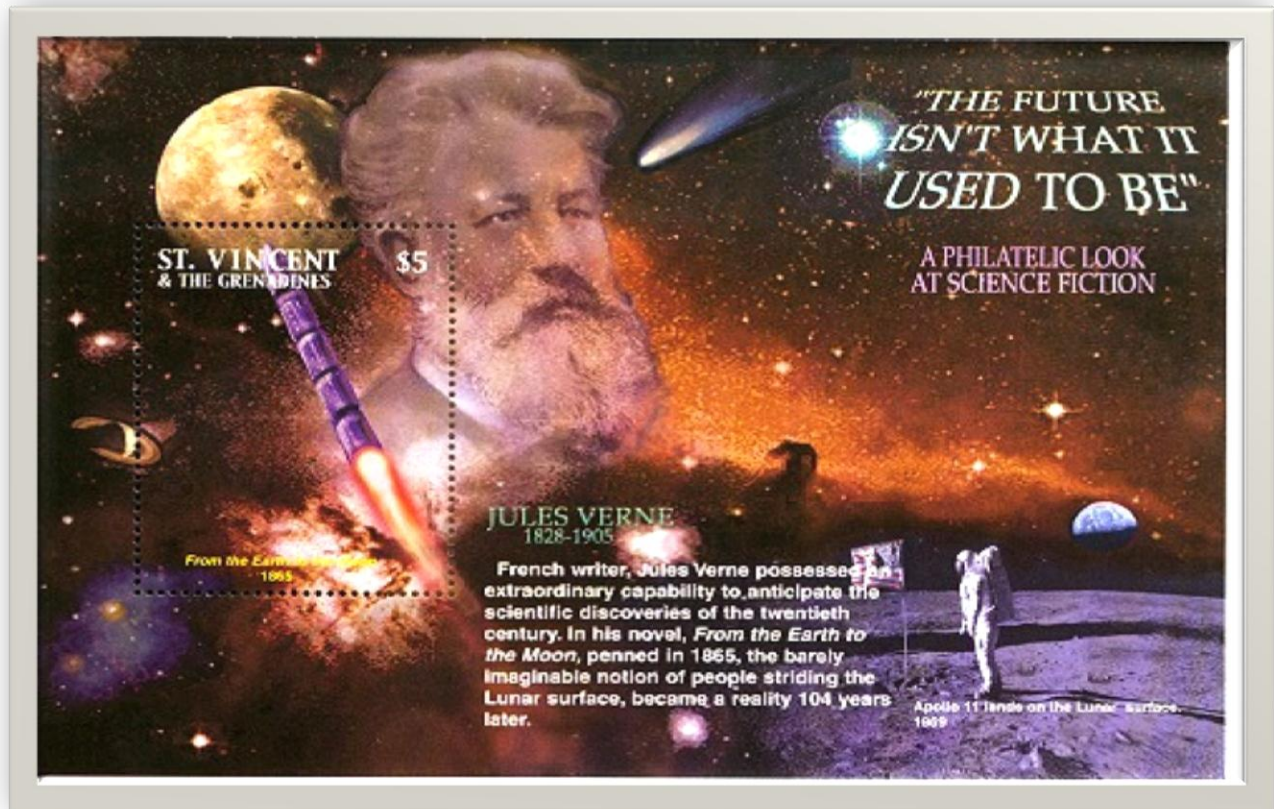


How to Melt the Arctic Ice Cap



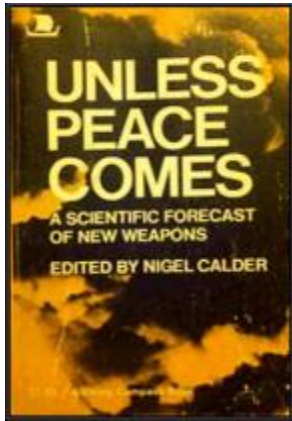
Jules Verne wrote about geoengineering the earth's climate in 1889 in a sequel to "From the Earth to the Moon" called "**The Purchase Of The North Pole**". [Verne writes](#) that the Baltimore Gun Club purchased large tracts of the Arctic then used the famous canon from the *earth-to-the-moon* to tilt the Earth's axis. The goal was to establish a tropical paradise as a profitable tourist attraction at the North Pole while "improving" the entire global climate.

If Verne correctly predicted that man would travel from the earth to the moon, it should be no surprise that he also predicted that a small group of influential men could change the global climate for profit.

Jules Verne's story could well have been inspired by Harvard geologist **Nathaniel Shaler**, who in **1877** proposed channeling more of the warm Kuroshio Current through the Bering Strait.

In **1912**, New York Engineer and Industrialist, **Carroll Livingston Riker** proposed building a [200 mile jetty](#) off Newfoundland to increase the Gulf Stream's flow into to the Arctic Basin with the added benefit that it would "shift" the axis of planet earth. The [New York Times](#) characterized the proposal as "amazing"...but not insane.

In 1958 [Atlantic Richfield](#) geologist L.M. Natland, proposed exploding up to **100 underground nuclear bombs** to mine the Alberta **Oil Sands**. Heat from the detonations was expected to boil the bitumen deposits, reducing their viscosity to the point that standard drilling operations could be used. The plan was encouraged by US efforts to find “peaceful uses” for atomic energy. The project was approved in 1959 but the Canadian government got cold feet in 1962 and declared that Canada was opposed to all forms of nuclear testing. In 2012 the Canadian Tar Sands are, again an issue of international concern.



In 1968, Gordon J. F. MacDonald authored “[Unless Peace Comes](#)“ where he correctly predicted that future means of obtaining national objectives by force hinges on man’s ability to control and manipulate the environment of planet Earth.

*“When achieved, this power over his environment will provide man with a new force capable of doing great and indiscriminate damage. Our present primitive understanding of deliberate environmental change makes it difficult to imagine a world in which geophysical warfare is practised. Such a world might be one in which nuclear weapons were effectively banned and the **weapons of mass destruction** were those of environmental catastrophe. As I will argue, these weapons are peculiarly suited for covert or secret wars.”*



“To consider the consequences of environmental modification in struggles among nations, we need to consider the present state of the subject and how postulated developments in the field could lead, ten to fifty years from now, to weapons systems that would use nature in new and perhaps unexpected ways. “

NASA – 1966: A Recommended National Program in Weather Modification



A report to the Independent Committee for Atmospheric Sciences (ICAS) by Homer E. Newell – Associate administrator for Space Science and Applications, NASA, Washington, DC.

In 1966, a report from NASA to ICAS (Independent Committee for Atmospheric Sciences of the National Academy of Sciences, NAS) was the first step in establishing a national Weather modification program that would ultimately involve multiple federal agencies. The report focused on four initial agencies: **ESSA, NSF, NASA, and the Dept. of Interior’s Bureau of Reclamation.**

Under Recommended Principals it was noted that (a) each agency would be independently funded while stressing inter-agency cooperation in research and cooperation. - Independent funding of agencies would make the program less conspicuous and more difficult for Congress to defund. Also, new agencies could be brought on board without high profile budget hearings. (b) A designated “central” agency – while having responsibility for focusing the national program – would not have any real authority to implement programs – leaving these decisions to probable unidentified civilian or military “stakeholders”.

Although the theme of the report is in the context of protecting agriculture, forests, lands and natural resources, the knowledge gained from manipulation of weather proved to be of immediate interest to the military and their industrial complex.



Thirty years following the creation of the Nation Program in Weather Modification, the US Air Force published a document ([“Owning The Weather in 2025”](#)) establishing that federal agencies involved in the National Weather Modification program are under tacit direction of the Department of Defense.

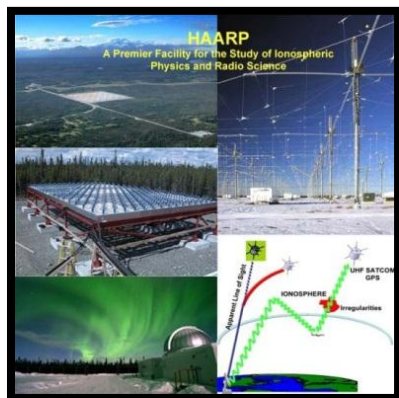
Opening Statement: *Current technologies that will mature over the next 30 years will offer anyone who has the necessary resources the ability to modify weather patterns and their corresponding effects, at least on the local scale. Current demographic, economic, and environmental trends will create global stresses that provide the impetus necessary for many countries or groups to turn this weather-modification ability into a capability.*

In the United States, weather-modification will likely become a part of national security policy with both domestic and international applications. Our government will pursue such a policy, depending on its interests, at various levels. These levels could include unilateral actions, participation in a security framework such as NATO, membership in an international organization such as the UN, or participation in a coalition. Assuming that in 2025 our national security strategy includes weather-modification, its use in our national military strategy will naturally follow. Besides the significant benefits an operational capability would provide, another motivation to pursue weather-modification is to deter and counter potential adversaries.

In this paper we show that appropriate application of weather-modification can provide battlespace dominance to a degree never before imagined. In the future, such operations will enhance air and space superiority and provide new options for battlespace shaping and battlespace awareness.1 “The technology is there, waiting for us to pull it all together;”2 in 2025 we can “Own the Weather

Much More Than Owning the Weather in 2025

The confidence and enthusiasm expressed in the USAF 1996 document: **Owning the Weather in 2025** was supported by the advent of scalar weapons technologies during the Reagan Star War years. The document promises: “*weather-modification can provide battlespace dominance to a degree never before imagined.*” The “never before imagined” comment speaks directly to the HAARP ionospheric



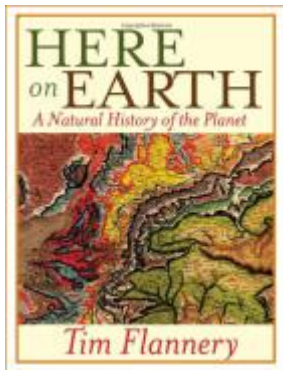
heater facility, the Bernard Eastlund patents and military strategies for global military dominance. This scenario of weather control harkens to the predictive warning from Gordon MacDonald in his book: [Unless Peace Comes](#)

Timeline for Owning the Weather: From 1987-1992 ATPI scientists build on Bernard Eastlund’s patents for development of new weapon capabilities. – In 1994 ATPI is bought by E-Systems with a contract to build the biggest ionospheric heater in world (HAARP). — In 1995, Raytheon bought E-Systems and old APTI patents. — In 1996 the Air Force publishes: **Owning The Weather in 2025.**

Melting Polar Icecaps Concept Revived During the Cold War Years of the 1960's



In his 2011 book, **Here on Earth: A Natural History of the Planet**, scientist and author, **Tim Flannery** reminds us that proposals to melt the Icecaps were advanced after World War II by reputable figures including the first director-general of UNESCO (Julian Huxley-1946), by a top official at the U.S. Weather Bureau, and by a Russian oil engineer **Petr Mikhailovich Borisov**. Scientific conferences debated the merits, while mining and energy corporations contemplated the use of nuclear detonations in the extraction of coal and oil.



Reputable figures in the international community saw a opportunity to detonate nuclear weapons as a novel and constructive way to geoengineer the Arctic. The prevailing rationale to justify this insanity included: (1) The arctic is nearly too cold to be habitable by humans (2) The polar ice cap blocks valuable shipping lanes. (3) The expanses of frigid water up North contributes to uncomfortably cold winters in many countries. (4) it's difficult for oil companies

to drill through ice.

The idea was publicly floated as a “peaceful use” of atomic weapons.

Flannery offers this example as evidence of humanity's seeming propensity for hastening its own extinction.

Here on Earth: A Natural History of the Planet - By Tim Flannery. [Book Review](#) by Mark Engler

Russian Oil engineer, P.M. Borisov's Proposed Method of Melting the Arctic Ice Cap

***Borisov's idea:** If the Arctic ice is once melted much less of the sun's radiation will be reflected out into space and therefore the arctic ice cap will not re-form. An ice-free Arctic Ocean would be a great boon to oceanic shipping, especially between Europe and East Asia. Much land in northern Canada and Siberia would be freed of permafrost and made suitable for agriculture. Borisov believed that an ice-free Arctic Ocean would lead to increased evaporation of water and hence increased rainfall worldwide, including the region of Sahara Desert leading to grass growing there. Borisov considers all of the impacts of the melting of the Arctic ice cap to be beneficial. He asserts that the melting of the Greenland ice cap would raise sea levels at a rate of only 1.5 to 2 mm per year.*

This scheme was taken seriously by Soviet climatologists. Two conferences were held in Leningrad in the early 1960's following an initial meeting in Moscow by the Presidium of the USSR Academy of Sciences in 1959.

Borisov in his article lists the more recently suggested methods for melting the Arctic ice cap.

- Covering great areas of the Arctic with **black powders** such as coal dust (G. Veksler, 1959) (**Carbon Black**)
- Dispersing the **cloud cover** over the central Arctic Basin (D. Fletcher, 1958) (**Geoengineering Aerosols**)
- Deepening of the Thomson Sill (V.N. Stepanov, 1963)
- Covering the water surface with a monomolecular film (M. Budyko, 1962)
- Installations to direct warmer Atlantic water into the Kara Sea (V.P. P'yankov, 1965)
- Pumping cold Arctic water into the Pacific to draw warm Atlantic water into the Arctic Basin (P.M. Borisov, c. 1968)

Borisov's idea requires construction of a dam across the Bering Strait. Source: P.M. Borisov, "Can we Control the Arctic Climate?", Bulletin of the Atomic Scientists, March, 1969, pp. 43-48.

In a [related scheme](#), a proposal was floated to store nuclear waste in Antarctica. The plan would be to allow the specially packaged canisters of **hot** radioactive waste to melt down through the ice until it reached the "ice-rock interface" where it would *supposedly* remain in cold storage for 250,000 years. Would this plan be promoted in 2012 given the recent revelations of conditions in the Antarctic?

The following Timeline is from the book, **ANGELS DON'T PLAY THIS HAARP** [Advances in Tesla Technology](#) by Jeanne Manning and Dr. Nick Begich. It contains some disturbing facts about the history of our Government's use of scalar technologies to modify the weather.

Timeline of covert testing and development of energy weapons

1886-8: Nikola Tesla invents system of Alternating Current power source and transmission system. As 60-pulse-per-second (hertz) AC power grids spread over the land, Mom Earth will eventually dance to a different beat than her usual 7-8 hertz frequency.

1900: Tesla applies for patent on a device to transmit Electrical Energy Through the Natural Mediums".

1905: U.S. Patent #787,412 issued for above.

1924: Confirmation that radio waves bounce off ionosphere (electrically-charged layer starting at altitude of 50 kilometers).

1938: Scientist proposes to light up night sky by electron gyrotron heating from a powerful transmitter.

1940: Tesla announces "death ray" invention.

1945: Atomic bomb tests begin 40,000 electromagnetic pulses to follow.

1952: W.O. Schumann identifies 7.83 hertz resonant frequency of the earth.

1958: Van Allen radiation belts discovered (zones of charged particles trapped in earth's magnetic field) 2,000+ miles up. Violently disrupted in the same year.

1958: Project Argus, U.S. Navy explodes 3 nuclear bombs in Van Allen belt.

1958: White House advisor on weather modification says Defense Dept. studying ways to manipulate charges “of earth and sky, and so affect the weather.

1960: Series of weather disasters begin.

1961?: Copper needles dumped into ionosphere as “telecommunications shield”.

1961: Scientists propose artificial ion cloud experiments. In 1960’s the dumping of chemicals (barium powder etc.) from satellites/rockets began.

1961-62: Soviets and USA blast many EMPs in atmosphere, 300 megatons of nuclear devices deplete ozone layer estimated at 4%.

1962: Launch of Canadian satellites and start of stimulating plasma resonances by antennas within the space plasma

1966, June, Report to ICAS by ICAS Select Panel – Chair, Gordon JF MacDonald. “Future plans of Federal Agencies in weather and Climate Modification.

1966, Nov, report from NASA to ICAS (Independent Comm. for Atmospheric Sciences of the Nat. Academy of Sciences, NAS) was first step in establishing a National Weather Modification program

1966: Gordon J. F. MacDonald publishes military ideas on environmental engineering. MacDonald was Chair of the ICAS Select Panel on Weather and Climate Modification.

1960’s: In Wisconsin, US Navy Project Sanguine lays ELF antennae.

1968: Moscow scientists tell the West that Soviets pinpointed which pulsed magnetic field frequencies help mental and physiological functions and which do harm.

1968: Gordon JF MacDonald authors book: “Unless peace Comes – a scientific forecast of new weapons” MacDonald was Chair of the ICAS Select Panel on Weather and Climate Modification.

1972: First reports on “ionospheric heater” experiments with high frequency radio waves, at Arecibo. 100-megawatt heater in Norway built later in decade; can change conductivity of auroral ionosphere.

1973: Documentation that launch of Skylab and associated rocket exhaust gases ‘halved the total electron content of the ionosphere for three hours.

1973: Recommendations for study of Project Sanguine’s biological effects denied by Navy.

1974: United Nations General Assembly bans environmental warfare.

1974: High-frequency experiments at Platteville, Colorado; Arecibo, Puerto Rico; and, Armidale, New South Wales heat “bottom side of ionosphere”.

1974: Experiments airglow brightened by hitting oxygen atoms in ionosphere with accelerated electrons.

1975: Stanford professor Robert Helliwell reports that VLF from power lines is altering the ionosphere.

1975: U. S. Senator Gaylord Nelson forces Navy to release research showing that ELF transmissions can alter human blood chemistry.

1975: Pell Senate Subcommittee urges that weather and climate modification work be overseen by civilian agency answerable to U.S. Congress. No action taken.

1975: Soviets begin pulsing “Woodpecker” ELF waves, at key brainwave rhythms. Eugene, Oregon, one of locations where people were particularly affected.

1976: Drs. Susan Bawin & W. Ross Adey show nerve cells affected by ELF fields.

1979: Launch of NASA’s third High-Energy Astrophysical Observatory causes large-scale, artificially-induced depletion in the ionosphere. Plasma hole caused by “rapid chemical processes” between rocket exhaust and ozone layer.” “ionosphere was significantly depleted over a horizontal distance of 300 km for some hours.”

1985: Bernard J. Eastlund applies for patent “Method and Apparatus for Altering a Region in the Earth’s Atmosphere, ionosphere and/or Magnetosphere,” (First of 3 Eastlund patents assigned to ARCO Power Technologies Inc.)

1986: US Navy Project Henhouse duplicates Delgado (Madrid) experiment — very low-level, very-low-frequency pulsed magnetic fields harm chick embryos. 20

1980’s: In the later part of the decade the U.S. begins network of Ground Wave Emergency Network (GWEN) towers, each to generate Very Low Frequency (VLF) waves for defense purposes .

1987-92: Other APTI scientists build on Eastlund patents for development of new weapon capabilities.

1994: Military contractor E-Systems buys APTI, holder of Eastlund patents and contract to build biggest ionospheric heater in world (HAARP).

1994: Congress freezes funding on HAARP until planners increase emphasis on earth-penetrating tomography uses, for nuclear counter proliferation efforts.

1995: Raytheon buys E-Systems and old APTI patents. The technology is now hidden among thousands of patents within one of the largest defense contractor portfolios.

1995: Congress budgets \$10 million for 1996 under “nuclear counterproliferation” efforts for HAARP project.

1995: HAARP planners to test patent number 5,041,834 in September.

1994-6: Testing of first-stage HAARP (euphemistically named High frequency Active Auroral Research Program) equipment continues, although funding was frozen.

1996: HAARP planners to test the earth-penetrating tomography applications by modulating the electroject at Extremely Low Frequencies

1998: Projected date for fully-operating HAARP system.

ClimateViewer 3D (CV3D) <http://climateviewer.com/>

The HAARP University
<http://rezn8d.com/haarp/>

HAARP, the High Frequency Active Auroral Research Program has to be (at least for me) the most fascinating device on the planet. A source of much controversy, with stories of weather modification and earthquake warfare dominating the conspiracy rings, this page seeks to piece together a thorough understanding of this amazing facility, it's capabilities, and its cousins (Upper Atmospheric Radars, aka Ionospheric Heaters).

HAARP 101: The World's Sexiest Energy Weapon
<http://rezn8d.net/2012/01/04/haarp-the-worlds-sexiest-energy-weapon/>

HAARP 201: Timeline: An Animated History of Ionospheric Destruction
<http://rezn8d.net/2012/01/20/haarp-timeline-an-animated-history-of-ionospheri...>

HAARP 301: The Sonic Weapon of Vladimir Gavreau — Tesla, LRAD, and HAARP
<http://rezn8d.net/2012/02/15/the-sonic-weapon-of-vladimir-gavreau-tesla-lrad-...>

HAARP 401: Directed Energy Weapons 101: Infrasonic, Sonic, Microwave & Laser
<http://rezn8d.net/2012/02/15/directed-energy-weapons-101-infrasonic-sonic-mic...>

HAARP 501: Project Nimbus & The Fire of the Gods
<http://rezn8d.net/2012/03/06/haarp-project-nimbus-and-the-fire-of-the-gods/>

HAARP 601: HAARP + DARPA = Team Thundercats
<http://rezn8d.net/2012/03/21/darpa-haarp-team-thundercats/>

HAARP 701: Resonations from the Moon
<http://rezn8d.net/2012/03/27/haarp-resonations-from-the-moon/>

HAARP 801: Russian President wields Zombie Apocalypse weapon!
<http://rezn8d.net/2012/04/05/russian-president-wields-zombie-apocalypse-weapon/>

HAARP 901: "Tales from the Crypt" Deleted Internet Pages
<http://rezn8d.com/haarp/haarpgate.html>