

The Military HAARP Project

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What Is The HAARP? High Frequency Active Auroral Research Program

By: [James A. Warholic](#), President of Professional Web Services, Inc.

Antenna Farm Array
www.haarp.alaska.edu
[HAARP Cam](#)

What some might think is just a wild technology and an unbelievable story, is in fact based on some interesting research activities going on up in Alaska and other places.

Background Information

Remember the name Nicola Tesla? If you paid attention in some of those physics classes when the teacher was talking about electrical properties you might of heard of this guy.

[Tesla, Nikola](#)

(b. July 9/10, 1856, Smiljan, Croatia--d. Jan. 7, 1943, New York City), Serbian-American inventor and researcher who discovered the rotating magnetic field, the basis of most alternating-current machinery. He emigrated to the United States in 1884 and sold the patent rights to his system of alternating-current dynamos, transformers, and motors to George Westinghouse the following year. In 1891 he invented the Tesla coil, an induction coil widely used in radio technology.

www.neuronet.pitt.edu/~bogdan/tesla/bio.htm

So [Nikola Tesla](#) was the father of AC Alternating Current along with a number of other inventions. Some of the concepts such as, transmission and radiation of radio frequency energy, high-voltage high-frequency radio propagation, and X-ray microwave technology that Tesla and another scientist by the name of [Guglielmo Marconi](#), are what the HARRP Project is based on.

[Guglielmo Marconi](#)

The "Father of Radio"

Radio waves were known as '[Hertzian Waves](#)' when Marconi began experimenting in 1894. A few years earlier Heinrich Hertz had produced and detected the waves across his laboratory. Marconi's achievement was to produce and detect the waves over long distances, laying the foundations for what today we know as radio.

www.marconiusa.org/marconi

Currently there is research going on with the HAARP Project from the [University of Alaska](#) as well as [DARPA](#). The Defense Advanced Research Projects Agency (DARPA) is the central research and development organization for the [Department of Defense \(DoD\)](#). It manages and directs selected basic and applied research and development projects for DoD, and pursues research and technology where risk and payoff are both very high and where success may provide dramatic advances for traditional military roles and missions.

DARPA established an MOA, [Memorandum Of Agreement](#), with the Air Force for this program in August 2002. The HAARP technology is planned for transition to the Air Force and Navy in FY 2006.

www.darpa.mil/tto/programs/haarp.htm

So What Does The HAARP Project Do?

For starters, it is a massive antenna farm in which high power radio waves are beamed up into the ionosphere. Major amounts of power are used to generate directional frequency waves into the ionosphere.

[Tactical Technology Office](#)

High Frequency Active Auroral Research Project (HAARP)

Program Manager: Dr. Sheldon Meth

Overview

The High Frequency Active Auroral Research Project (HAARP) will develop new experimental research capabilities and will conduct research programs to exploit emerging ionosphere and radio science technologies related to advanced defense applications.

The FY 1990 Appropriation Act provided funds for the creation of HAARP, jointly managed by the Air Force Research Laboratory and the Office of Naval Research to exploit emerging ionosphere and high power radio technology for new military systems applications.

Key to the current effort is the expansion of the experimental research facility that includes a 3.6 MW high-frequency transmitter and a variety of diagnostic instruments, to conduct investigations to characterize the physical processes that can be initiated and controlled in the ionosphere and space, via interactions with high power radio waves.

Among these are:

- (1) the generation of extremely low frequency/very low frequency radio waves for submarine and other subsurface communication, and the reduction of charged particle populations in the radiation belts to ensure safe spacecraft systems operations;
- (2) the control of electron density gradients and the refractive properties in selected regions of the ionosphere to create radio wave propagation channels; and
- (3) the generation of optical and infrared emissions in space to calibrate space sensors.

To date, the facility has been developed to include a suite of optical and radio diagnostics and an advanced, modern, high frequency transmitting array that has a radiated power of 960 kW, about one-third of the 3.6MW called for in the original concept and plan. The current high frequency transmitting array has proven to be extremely reliable and flexible, and has shown the feasibility of the overall concept. However, results to date indicate that advanced applications-related research activities and new military system concept demonstrations envisioned under the program require that the high frequency transmitting capability at the site be increased from the present 960 kW level to the originally planned 3.6 MW level.

A recent study completed by an Air Force/Navy Panel also points to additional high-value functions that can potentially be accomplished with the a 3.6 MW capability, in particular, the exploration and refinement of scientific principles that could lead to the development and deployment of a system to provide protection for space-based assets from emergent asymmetric threats. DARPA established an MOA with the Air Force for this program in August 2002. The HAARP technology is planned for transition to the Air Force and Navy in FY 2006.

Program Plans

- Complete the HAARP high frequency transmitting array at the HAARP Research Station, Gakona, AK.
- Prepare the existing HAARP facility in preparation for ionospheric testing.
- Conduct advanced ionosphere and radio science research and analysis of applications including space-based asset protection and phenomena related to its implementation.

In short, the government plans for HAARP are for research and testing out various Star Wars technologies along with the various related phenomenas associated with this technology.

That is quite an open-ended plan. Where it goes from here is anybody's guess.

Some other thoughts on HAARP

www.haarp.net

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