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News

Artificial ionosphere creates bullseye in the sky

Auroral experiments make glowing plasma patch.

Naomi Lubick



Natural aurorae light up the northern skies.Chris Madeley / Science Photo Library

An experiment that fires powerful radio waves into the sky has created a patch of 'artificial ionosphere', mimicking the uppermost portion of Earth's atmosphere. The research has not only caused glowing dots to appear around these patches — it could also provide a new way to bounce radio signals around the globe.

The High Frequency Active Auroral Research Program (HAARP), near Gakona, Alaska, has spent nearly two decades using radio waves to probe Earth's magnetic field and ionosphere. One of the most obvious results of the experiments is that they can create lights in the sky that are similar to auroras, the glowing curtains of light that naturally appear in the polar skies when electrons and other charged particles pour down from Earth's protective magnetosphere into the upper atmosphere. There, at an altitude of about 250 kilometres, the charged particles collide with molecules of oxygen and nitrogen and make them emit light, similar to the process inside a fluorescent light bulb.

HAARP's high-frequency radio waves can accelerate electrons in the atmosphere, increasing the energy of their collisions and creating a glow. The technique has previously triggered speckles of light while running at a power of almost 1 megawatt¹. But since the facility ramped up to 3.6 megawatts — roughly three times more than a typical broadcast radio transmitter — it has created full-scale artificial auroras that are visible to the naked eye.

Bullseye!

But in February last year, HAARP managed to induce a strange bullseye pattern in the night sky. Instead of the expected fuzzy, doughnut-shaped blob, surprising irregular luminescent bands radiated out from the centre of the bullseye, says Todd Pedersen, a research physicist at the US Air Force Research Laboratory in Massachusetts, who leads the team that ran the experiment at HAARP.

The team modelled how the energy sent skywards from the HAARP antenna array would trigger these odd shapes. They determined that the areas of the bullseye with strange light patterns were in regions of denser, partially ionized gas in the atmosphere, as measured by ground-based high-frequency radar used to track the ionosphere².

The scientists believe that these dense patches of plasma could be gas that was ionized by the HAARP emissions. "This is the really exciting part — we've made a little artificial piece of ionosphere," Pedersen says.

"The novelty is not seeing the aurora — it's the fact that we can actually create enough highenergy electrons to form plasma," says Mike Kosch, chair of Experimental Space Science at Lancaster University, UK, and a former co-worker of Pedersen's who was not involved in the experiment. "It shows something completely different and new that we hadn't expected. We didn't know we could do that from a radio array on the ground."

The team's results are published in Geophysical Research Letters².

come back infor a trade **Artificial Optical** Travis SAVIT Emissions

"Me, Herb & Travis saw it w/ naked eye!" - Todd Pedersen

records in his lab notebook their first glimpse of HAARP's illuminating effect.Todd Pedersen

Power up

HAARP's success is down to the fact that it operates at much higher power than any other array running similar experiments, such as the EISCAT (European Incoherent Scatter) Scientific Association's antenna in Norway, which runs at 1.2 megawatts, explains Kosch.

"Whether it's useful or not is another story," he adds, joking that companies might one day hire physicists to use the technology to write glowing advertisements in the night sky. But the costs would be astronomical to create artificial aurora that are visible, he says — the energy costs of running HAARP at full power are more than US\$4,000 an hour.

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More serious applications might include creating a layer of artificial plasma that could reflect communications from a submarine, for example. The US Air Force, which co-funds HAARP with the British Air Force and others, could use the plasma to reflect radio transmissions, bouncing them farther around the globe without losing power, suggests Pederson.

"Instead of depending entirely on the natural ionosphere to redirect radio waves or shortwave broadcasts," Pedersen says, "we are now getting the capability that we can actually produce our own little ionosphere". The results of the February 2008 experiment "make these concepts seem possible".

References

- 1. Pedersen T. R. & Gerken E. A. Nature 433, 498-500 (2005). | <u>Article</u> | <u>PubMed</u> | <u>ChemPort</u> |
- 2. Pedersen T. et al. Geophys. Res. Lett. 36, L18107 (2009). | Article

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• <u>#8544</u>

So stumbled into another interesting article about HAARP. I remember meeting a fellow who said he was a "wet-wire" (ie. human-satellite/computer interface). The term "wet" is another slang word for "blood", even popularized by some video games as late.... Said he was being experimented on by the Military and even gave me some interesting pictures of note. Even got me looking at the skies more carefully (although the chemtrails have been few and far between lately). Anyway, he said that once they get everyone chipped, that it will be even easier to control the population. (as if it isn't easy enough right now). He spoke of satellite transmissions, infrared beams, elf waves, etc. bouncing off chemtrails (that are used to essentially create reflecting pools in the sky composed of barium, aluminum oxides, etc. for more ready transmission of these waves around the globe). Many believe that is why we have the mandatory convergence from analog t.v. to digital t.v. to free up even more channels for such type transmissions. I dunno. Just piecing things together here. Doesn't the scripture say that Satan is the prince of the "air"??..... Chemtrails have been revealed to effect weather patterns, but have an even more sinister application according to him. In his estimation, the powers that be are attempting to create a matrix of control via what he termed "psychocivilized society" through electromagnetic manipulation. I have also seen video on the Science channel discussing possible clothing of the future (with enhanced electronic weaving that literally interfaces your anatomy)..... Anyway, this article is rather interesting in leu of our meeting.... Just passing along, regardless whether you can stomach the possibility, we are in store for a rude awakening I think.

- <u>Report this comment</u>
- 2009-10-06 12:21:04 AM
- Posted by: Riley Smith
- <u>#8551</u>

So, in support of the previous poster I suggest everyone worried about HAARP mind control wear your aluminum foil head covers at all times to stop the evil scientists from controlling you and to promote awareness in those around you of your, err, I mean 'the' problem.

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- 2009-10-06 03:15:22 PM
- Posted by: Doug Parsons

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