

New Ice Age Ahead

HAARP an abuse of the ionosphere?

When the HAARP sings...



[HAARP site](#)

the Earth listens and shatters, and

the cycles of tears follow, or do they?

Historic earthquakes prior to the year 2000					Earthquakes with HAARP active 11 years from 2000 - 2011			
Country	starting year	# of years	# of quakes	events per year	# of quakes	events per year	% increase	upswing
USA	1663	337	47	0.139	22	2.00	1438	14-fold
Canada	1663	337	20	0.059	10	0.909	1540	15-fold
China	1290	710	20	0.029	9	0.818	2820	28-fold
Indonesia	1797	203	11	0.054	43	3.909	7238	72-fold
Japan	684	1316	27	0.020	15	1.363	6815	68-fold
Iran	856	1144	23	0.020	9	0.818	4090	40-fold

What caused the sharp increase in the total number of earthquakes from the year 2000 on?

Was it HAARP?
Is it beneficial or dangerous?

HAARP became active in 1998 and was upgraded in 2007

Exploring the HAARP dynamics

The High Frequency Active Auroral Research Project (HAARP), operated by the US [Office of Naval](#)

[Research](#) and [Air Force Research Laboratory](#), was founded in 1993 and became active in 1998. Its purpose is to study the dynamics of the earth's ionosphere - not in a passive mode by observing its natural dynamics, but in an "active" mode as its name implies, by researching how artificial interference can make the power inherent in the ionosphere available for military objectives, such as missile defense, subterranean mammography to locate underground military installations, weather manipulation, communications control and improvements, especially submarine communications, and a long list of other stated objectives for national defense. Simply put, the ionosphere has become militarized.

Could the operation of this research facility also have the secondary effect in producing earthquakes? The timing of the sharp increase in earthquakes coincident with the startup of the HAARP facility suggests that such an effect exists. Evidently something has caused the sharp increase shown above. (For the lists see: [List of Earthquakes](#)) We know that the Sun has not changed during the 11 year period since the year 2000, if anything it has become less active. Nor has the Earth and the Moon changed in this timeframe to account for the sharp upswing in the number of earthquakes happening. The startup of the HAARP facility, however, coincides precisely with the experienced upswing. The possibility for a connection exists by the manner in which the HAARP operates.

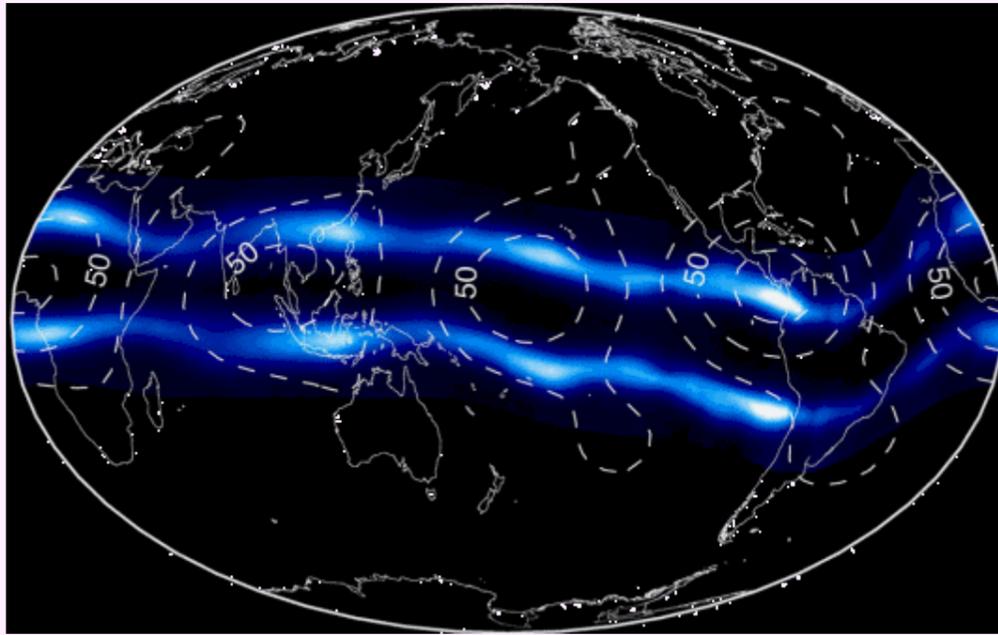
HAARP utilizing the dynamics of the ionosphere

The ionosphere is the Earth's interface with the electric environment in space, such as carried by the solar winds and resulting from other causes. In this interface region strong electric currents are flowing, termed the Electrojets, which are concentrated in a circular band in both the northern and southern polar region, and in two bands that encircle the Earth along the magnetic equator. Violent effects can be caused by heating the ionosphere in the Electrojets that thereby interrupts that natural current flows. With the interruption a shockwave occurs as the energy distribution becomes altered. This shockwave becomes visible on the Sun when a solar prominence becomes stressed past the breaking point whereby the energy that is contained in the flowing system explodes into space in the form of solar flairs that at times reach gigantic proportions, containing billions of tons of electric plasma.



By NASA

The same type of effect, though much smaller in scale, can be artificially created in earth's ionosphere when the Electrojets become disrupted by radio induced focused spot-heating. Furthermore, with the polar Electrojets being small in size, the induced shock-effect can be pulsed. In order to enable subterranean mammography the shocks are being timed to a frequency that is able to excite the natural resonance frequency of the earth lithosphere - the Alfvén Wave frequency of 0.9 Hertz. On earth the pulsed perturbation shockwaves are transmitted throughout the ionosphere and become reflected in equatorial Electrojets that have their natural concentration nodes right over, or near, the areas where the major earthquake increases are occurring (Indonesia, Japan, Iran).



NASA - plasma bands

The ionosphere in turn is electrically coupled to electric currents occurring in conductive strata in the the Earth's crust, including the shockwave pattern. Then, when the underground current flows are interrupted by breaks in the conductive strata, underground electric shock-explosions can occur that may be simply termed 'underground lightning.' If the perturbation is strong enough, it may cause earthquakes and possibly even volcanic events, though no sharp increase in volcanic activity has been recorded reflecting the increase in earthquakes.

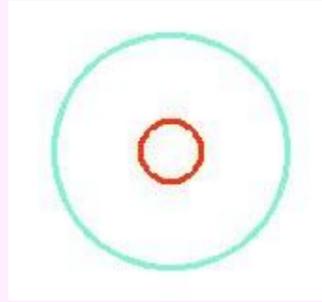
The Alfvén Wave phenomenon

The Alfvén Wave phenomena is a discovery that is only vaguely understood. Discovered by Hannes Alfvén, it is an electromagnetic phenomenon that happens on the very low frequency of 0.9 Hertz, representing a resonant frequency of a medium that is electromagnetically responsive with a resonant frequency of 0.9 Hertz. It is believed that the ground of the Earth is such a medium. It has been discovered that when a radio-wave-type receiver is tuned to lower and lower frequency, suddenly at 0.9 Hertz a spike of radio noise is detected that corresponds to random reverberations in a resonant medium at this frequency. It is believed that electrically conductive strata in the Earth can create such a resonance.

It is difficult to create such a long wave on earth as a resonant electric circuit operating at the speed of light (299,792 km/sec) would have to be 303,000 km in length. However, electric transmission speed is typically lower, depending on the characteristic of the conductor, with the ground being a poor conductor. On this basis it is believed that a 0.9 Hertz resonance circuit could exist in the mantle of the Earth spanning, possibly spanning from pole to pole, aligned with the magnetic field. An electric transmission speed more than ten times slower than the speed of light would accomplish that. Slow transmission speeds are not uncommon. For example the transmission speed in the heliospheric current sheet in our solar heliosphere as been measured at a mere 300 km/sec.

But how would one know without exciting the Alfvén Wave resonance in the Earth? It is not possible of course to build an antenna with the required wavelength. Still, it is possible to excite the resonance with a timed electromagnetic shock delivered at the resonance frequency. This can be achieved by utilizing the ionosphere.

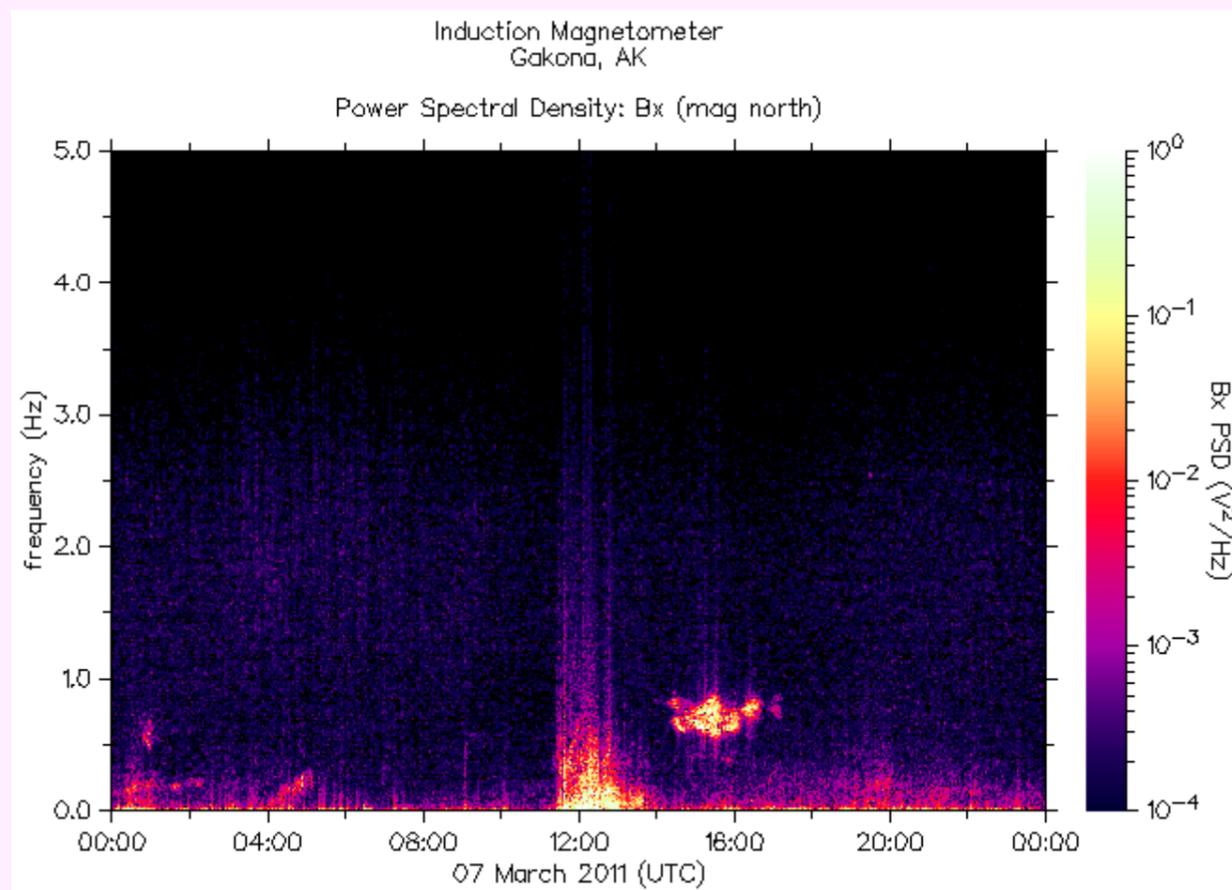
The ionosphere is the Earth's electrically conductive outer atmosphere, our interface with space. It form a band of two electrojets around the Earth's magnetic equator (shown above) and a smaller one around each of the north and south magnetic pole shown in red below.



The electric current that flows in them is a steady flowing current. The four node points that are seen in the NASA image of the equatorial electrojets above are not a wave phenomenon, but are zeta-pinch points where electromagnetic forces 'pinch' the currents periodically to a smaller cross-section and thereby higher density. When undisturbed the currents remain relatively quiet. However, when a disturbance is introduced, the disturbance is carried with the electric current encircling the Earth. If the current would flow at the speed of light, the disturbance would encircle the Earth 6 times a second at the equator, though slower in practice.

The Induction Magnetometer

The University of Tokyo has provided an extremely sensitive instrument to monitor electromagnetic disturbances. It is located at the HAARP project site. Its three sensors are oriented north, east, and vertical, providing full spherical sensitivity. The signals from the sensors are amplified 40,000 times, which makes the instrument sensitive enough to detect the faintest disturbances, such as signals resulting from ion-cyclotron radiation generated near the equatorial plane of the outer-magnetosphere that make their way to the ionosphere guided by the Earth's magnetic lines of force.



[Source](#)

On a quiet day the instrument simply picks up noise in the 2.5 Hertz range, which appears to correspond to the electric cycle time of the northern auroral electrojet. Lightning discharges and the Schumann resonance signals, are also detected and sometimes become strong enough to mask signals from the ionosphere.

See: [HAARP Induction Magnetometer](#)

The Schumann resonances

The Schumann resonances (SR) are a set of spectrum peaks in the extremely low frequency (ELF) portion of the Earth's electromagnetic field spectrum. Schumann resonances are global electromagnetic resonances, excited by lightning discharges in the cavity formed by the Earth's surface and the ionosphere. This global electromagnetic resonance phenomenon is named after physicist Winfried Otto Schumann who predicted it mathematically in 1952. Schumann resonances occur because the space between the surface of the Earth and the conductive ionosphere acts as a closed waveguide. The limited dimensions of the Earth cause this waveguide to act as a resonant cavity for electromagnetic waves in the ELF band. The cavity is naturally excited by electric currents in lightning. Schumann resonances are the principal background in the electromagnetic spectrum between 3 and 69 Hz, and appear as distinct peaks at extremely low frequencies (ELF) around 7.83, 14.3, 20.8, 27.3 and 33.8 Hz. The lowest-frequency (and highest-intensity) mode of the Schumann resonance occurs at a frequency of approximately 7.83 Hz, but this frequency can vary slightly from a variety of factors, such as solar-induced perturbations to the ionosphere, which comprises the upper wall of the closed cavity. The Schumann resonances are in principle a standing wave in the cavity between the Earth and the ionosphere with a wavelength equal to the Earth's circumference.

See: [Schumann resonances](#)

The Alfvén resonances, or Alfvén waves,

Alfvén waves are low frequency [magnetohydrodynamic](#) plasma waves or oscillations. They were first theoretically predicted by Hannes Alfvén in the 1950's, and he earned the Nobel Prize for his work in plasma physics. Alfvén waves are of fundamental importance in the behavior of many laboratory and space plasmas. Basically, these waves can be thought of as waves on a magnetic string. The magnetic field acts like a string, and the plasma particles act like beads. Heavier beads - heavier plasma ions - means the waves are slower and the wavelength is longer.

Alfvén waves communicate information about changes in magnetic field topologies, and are especially important in the dynamics of magnetic reconnection. For example, changes in the auroral current magnitude and spatial configurations, or changes in the magnetospheric configuration, involve propagation by Alfvén waves.

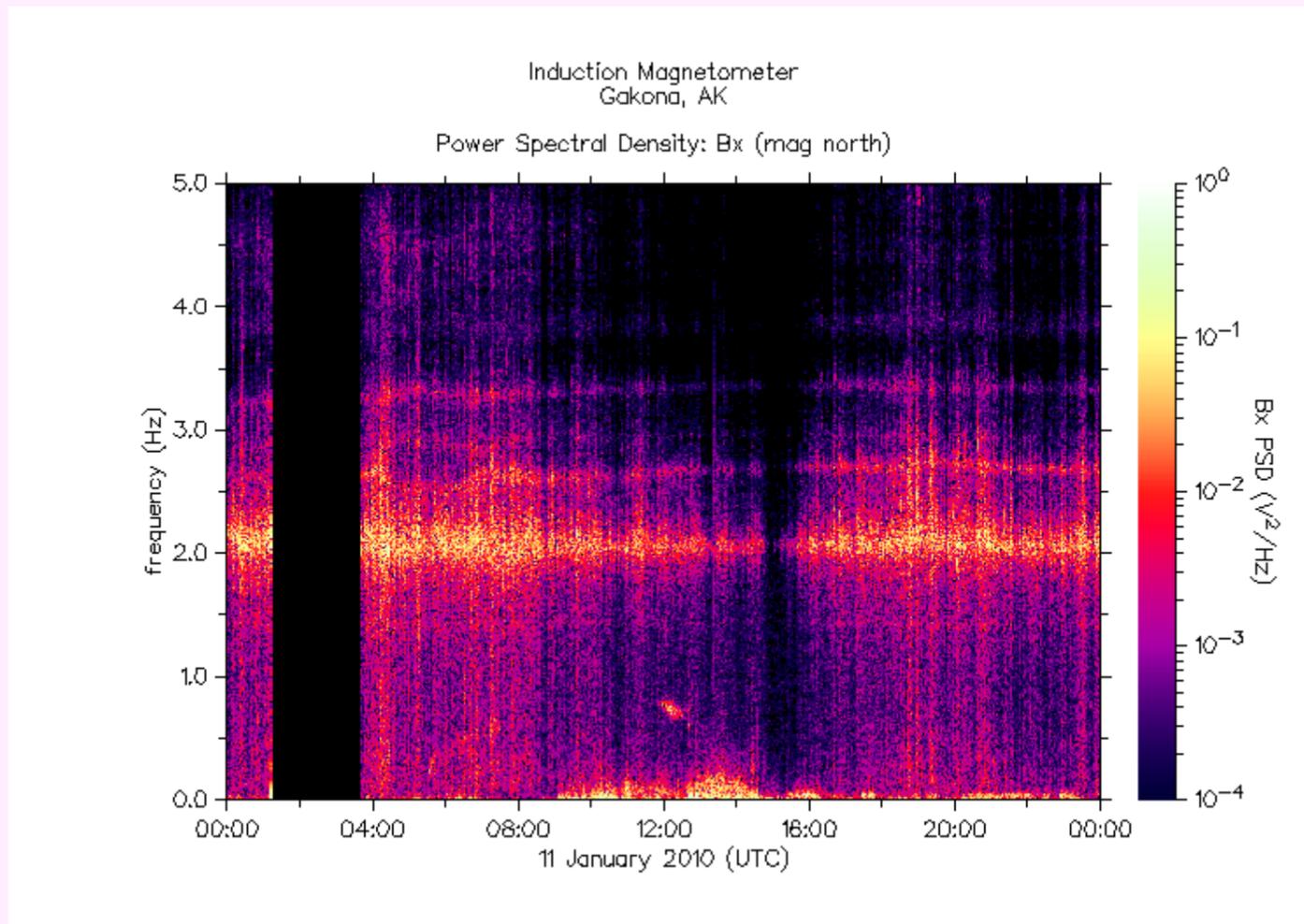
see: [Alfvén Waves](#)

Langmuir Probe Instrument of CRRES space observatory

The Langmuir probe, with CRESS in geosynchronous orbit, was designed to measure the temperature and density of cold electrons and the electric fields in the magnetosphere, as well as their spatial and temporal fluctuations. The energy range of the measured ambient plasma was up to 10 eV and the frequency range of the measured electric field was from dc to 1 kHz.

See: [NASA - Langmuir Probe](#)

The Alfvén wave appears to be confirmed in space. It is also believed to be a resonance within the Earth's lithosphere cavity in the mantle of the Earth, which may be connected to earthquakes and might be useful for short-term earthquake prediction, and also possibly earthquake causation. The magnetometer is useful in detecting electromagnetic disturbances at the ground level.



[HAARP on Haiti earthquake day](#)

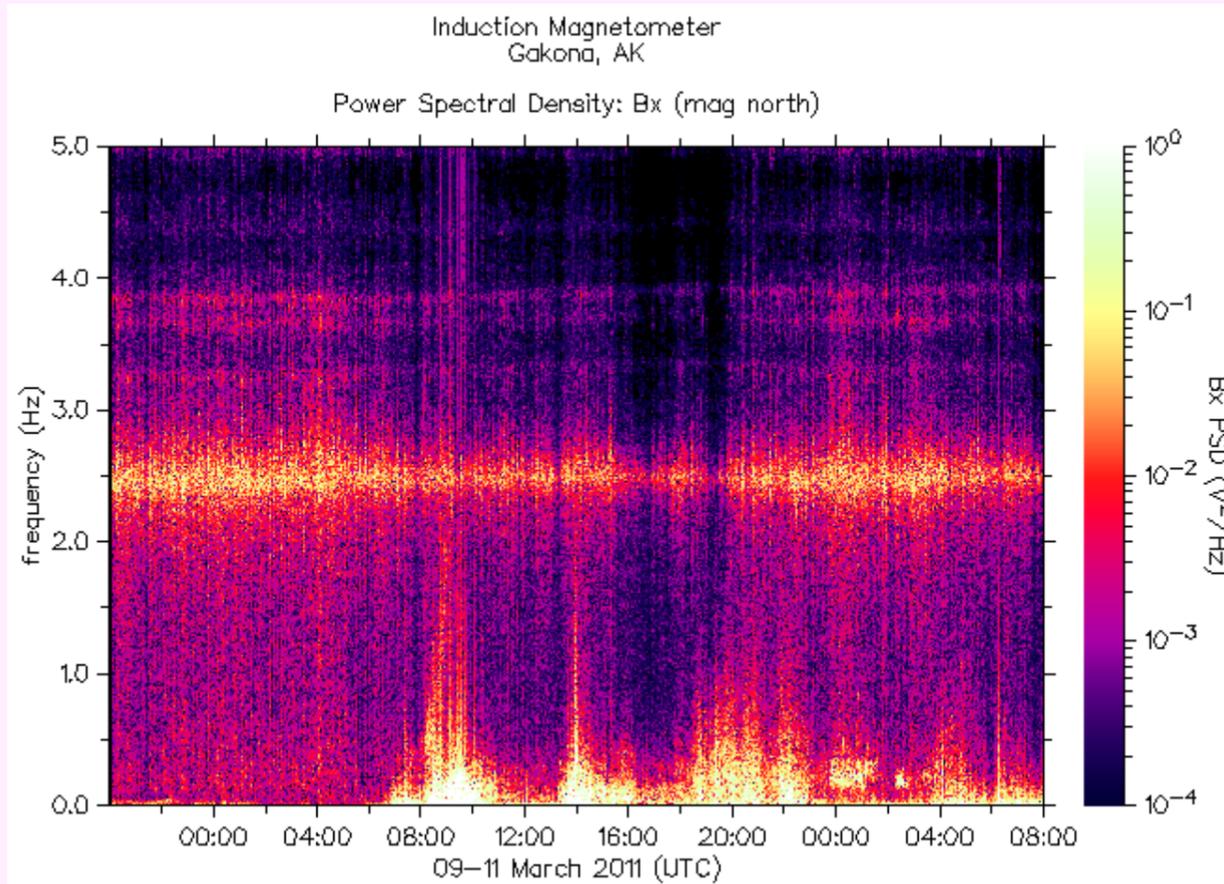
When a shock- disturbance is introduced in the auroral electrojet it cycles around the path of the electrojet 2.5 times to 3 times a second until it dissipates. The apparent resonant frequency of the electrojet is determined by its circumference. The induction magnetometer does not resolve events down to a single cycle, but group successive cycles together into spectrogram images by computing the PSD (power spectral density) of successive 102.4-second segments of the data, and plotting these spectra as color/intensity slices along a 24-hour scale.

During the day preceding the Haiti Earthquake (January 12, 2010 at 21:10 UTC) the magnetometer registered significant events occurring for 1.5 days before and after the quake. It is often cited as proof that the HAARP caused the earthquake, considering that HAARP is a military project that is designed to manipulate the ionosphere by strategically heating it, which would disrupt the naturally occurring currents, inducing shocks that can be applied in a pulse mode that would induce shockwaves throughout the entire ionosphere. One of the military objectives is to enable subterranean mammography for the detection and location of underground military installations by means of inducing electric signals into the ground that can be monitored from space.

However, the induction magnetometer cannot determine where the observed phenomena originated. Did it originate in space, or in Russia, or in Norway, or perhaps with the HAARP project itself, or by other means?

See: [HAARP on Haiti earthquake day](#)

Preceding the 2011 earthquake in Japan.



[Source](#)

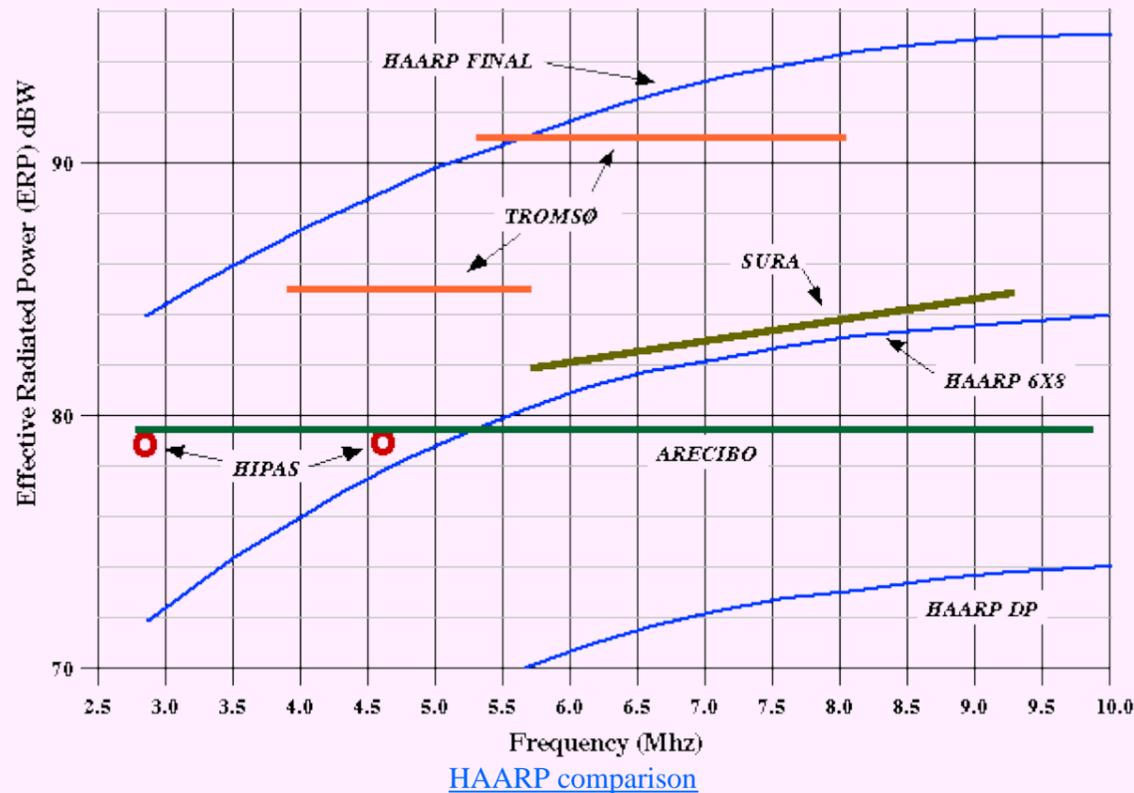
A big solar flare reached the Earth on March 10 at 06:30 UT (Universal Time), which appears to have peaked between 08:00 and 10:00, with some lesser inductions happening till about 23:00 according to the magnetometer. By this time the foreshocks (March 9) had already happened. The big quake happened at 05:46:23 [UTC](#) on March 11. Nor did the solar flare stand out in any big way against the background of the remaining data of powerful disturbances circling in the electrojet 2.5 times per second in the North, being constantly renewed in an extremely regular fashion. The Schumann resonances that one would expect from such an event are evident for a short period. Another single brief Schumann resonance spike is evident at the quake time, evidently resulting from the quake itself.

The general background pattern that we see in the spectral graph above is not what one would expect to see from natural occurrences. The persistent background pattern is so strong that the big solar flare barely stands out against it. Only precisely timed pulsing at regular intervals would produce the kind of pattern that we see extended over 36 hours with almost no variation.

Again, the magnetometer cannot tell us where the regularly repeated disturbances originated that almost mask the biggest solar flare of the year. Nor does it prove that the artificially induced pattern has caused the earthquake or similar earthquakes. It only suggests with a relatively fair certainty that an ionospheric pulsing has occurred at the time, of a type that the HAARP was created to produce, and that the earthquake occurred within the numerous times when the facility was active. The kind of high value billion dollar military research facility that HAARP is wouldn't be sitting idle for long, but would be frequently in use, especially to explore the new capabilities that its major upgrade had enabled that came on line in 2007. The facility would have been highly active in the period after the summer of 2007 with all kinds of ambitious high-power applications for which the upgrade was installed.

The fact needs to be kept in mind that the HAARP (High Frequency Active Auroral Research Project) operated by the U.S. Air Force and Navy, was designed for ultra low frequency research of the "Active" type. Active means that the research is not focused on how the ionosphere normally functions, but how it functions when it is actively altered when shockwaves are induced by pulsed

heating that disrupts the current flows, and how the resulting perturbations can be utilized for military purposes with a wide variety of potential applications. The facility was upgraded to deliver 5.1 Gigawatt of effective radiated power into the ionosphere to induce heating and focused expansion. The upgrade came on line in the summer of 2007, which made it the most powerful facility of its type in the world that 'plays' with the immense galactic electric currents that surround our planet.



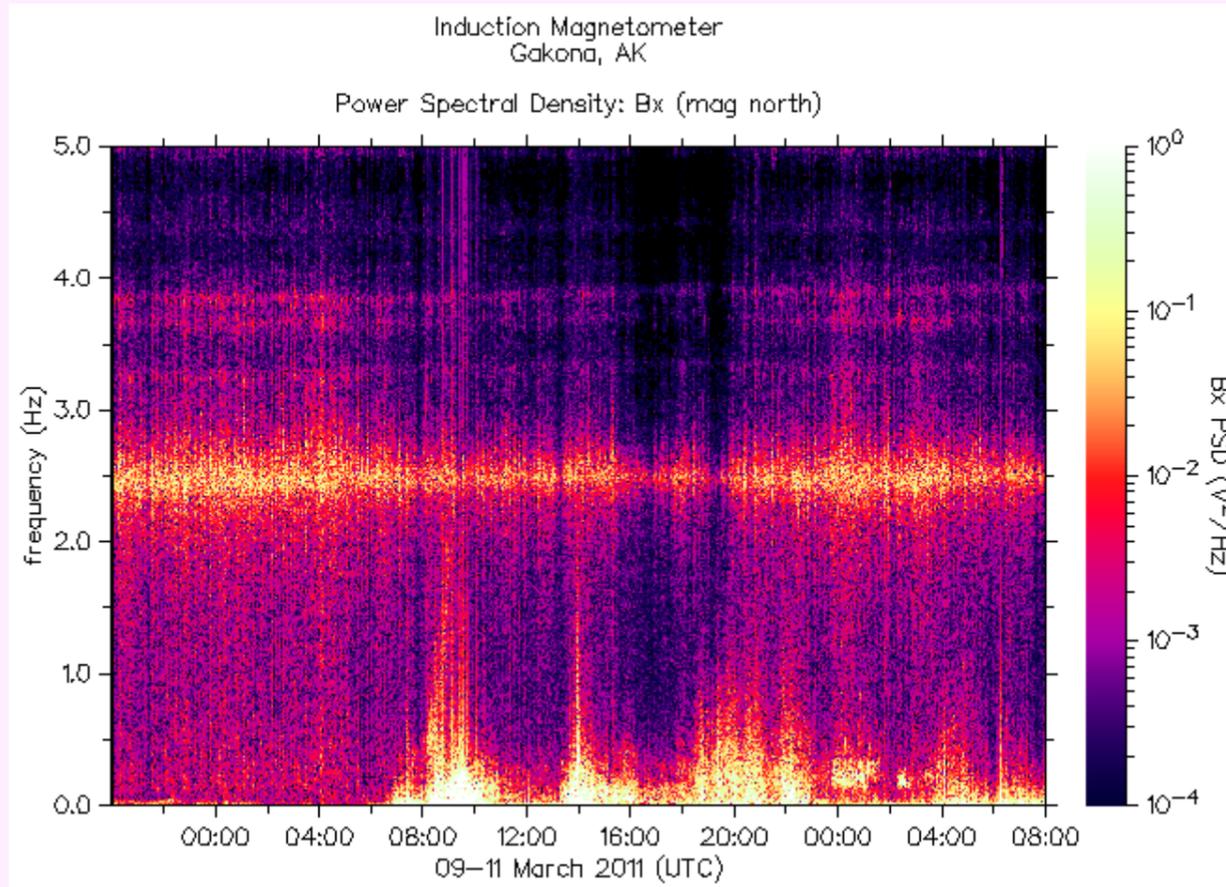
The 9.0-magnitude (MW*) megathrust earthquake that occurred on 11 March 2011 at 14:46 JST in the western Pacific Ocean, 130 kilometers (81 mi) east of Sendai, Honshu, Japan, lasting approximately six minutes, was preceded by a number of large foreshocks, starting with a 7.2 MW event on 9 March, approximately 40 km (25 mi) from the 11 March quake, with another three on the same day in excess of 6.0 MW. Following the quake, a 7.0 MW aftershock was reported at 15:06 JST, followed by a 7.4 at 15:15 JST and a 7.2 at 15:26 JST. Over five hundred aftershocks of magnitude 4.5 or greater have occurred since the initial quake.

*(Note: MW refers to the new magnitude value that include the orientation of seismic moment)

Earthquakes of this type have happened before, though rarely. Is there a coincidence possible with HAARP, which has the stated objective to induce extra-long waves into the crust of the Earth for various types of objectives, such a subterranean mammography? Such a connection theoretically exist. The HAARP induced shock pulses would be reflected throughout the ionosphere including into the equatorial electrojets. If the pulses would occur at 1.1 second intervals, they might indeed trigger the resonance of the Earth at an Alfvén Wave frequency, radiating especially strongly from the node points.

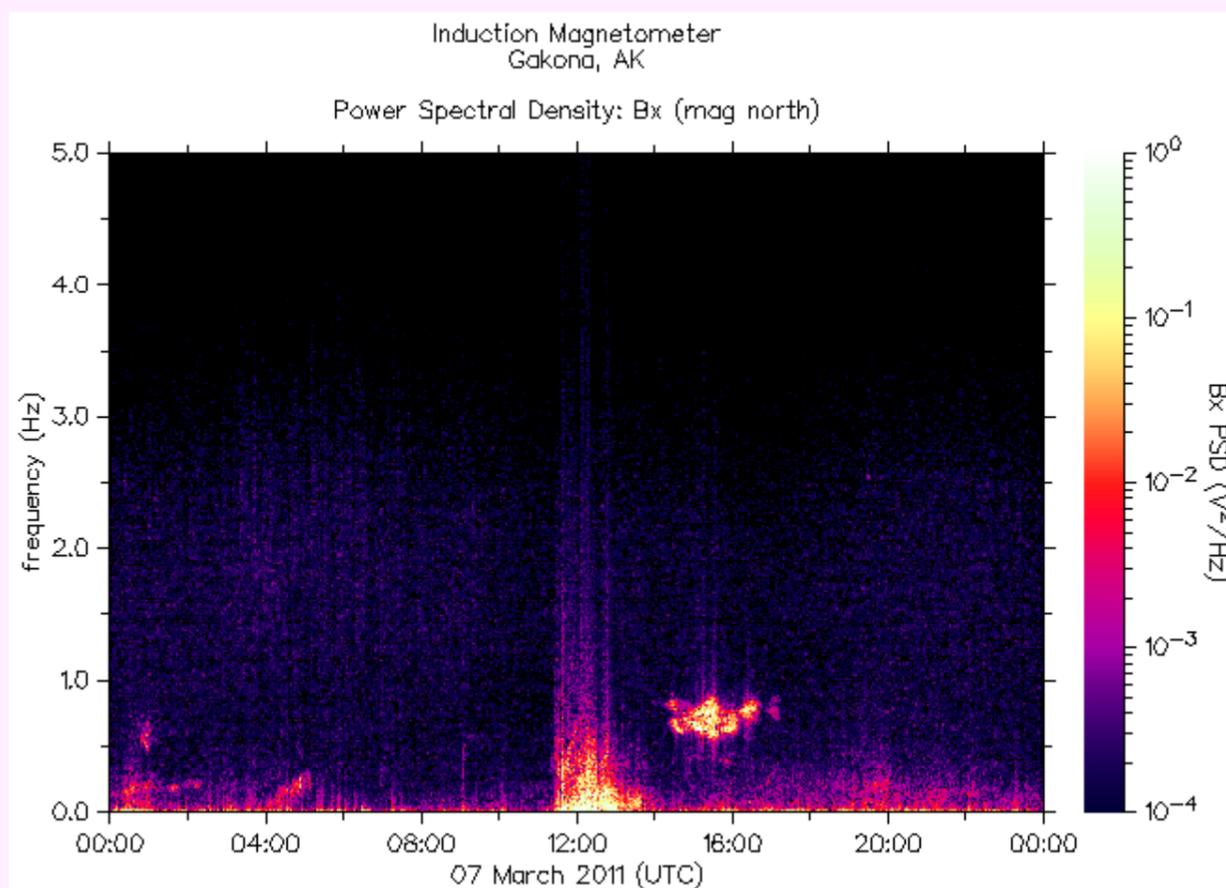
The Astrophysical Connection

It is possible, also, that the in-the-ground Alfvén waves can resonate at much lower frequencies than the 0.9 Hertz peak that is generally understood as the Alfvén frequency, which may be but an upper limit. The Langmuir probe, of the CRESS satellite had detected wave frequencies that it stated as "from DC to 1 Hertz." If we look at the magnetometer readings with what the probe saw kept in mind, we do find extremely low frequency rumblings of the type that are typical for induced solar disturbances happening prior to the earthquake events for both Haiti in 2010 and Japan 2011.



[Source](#)

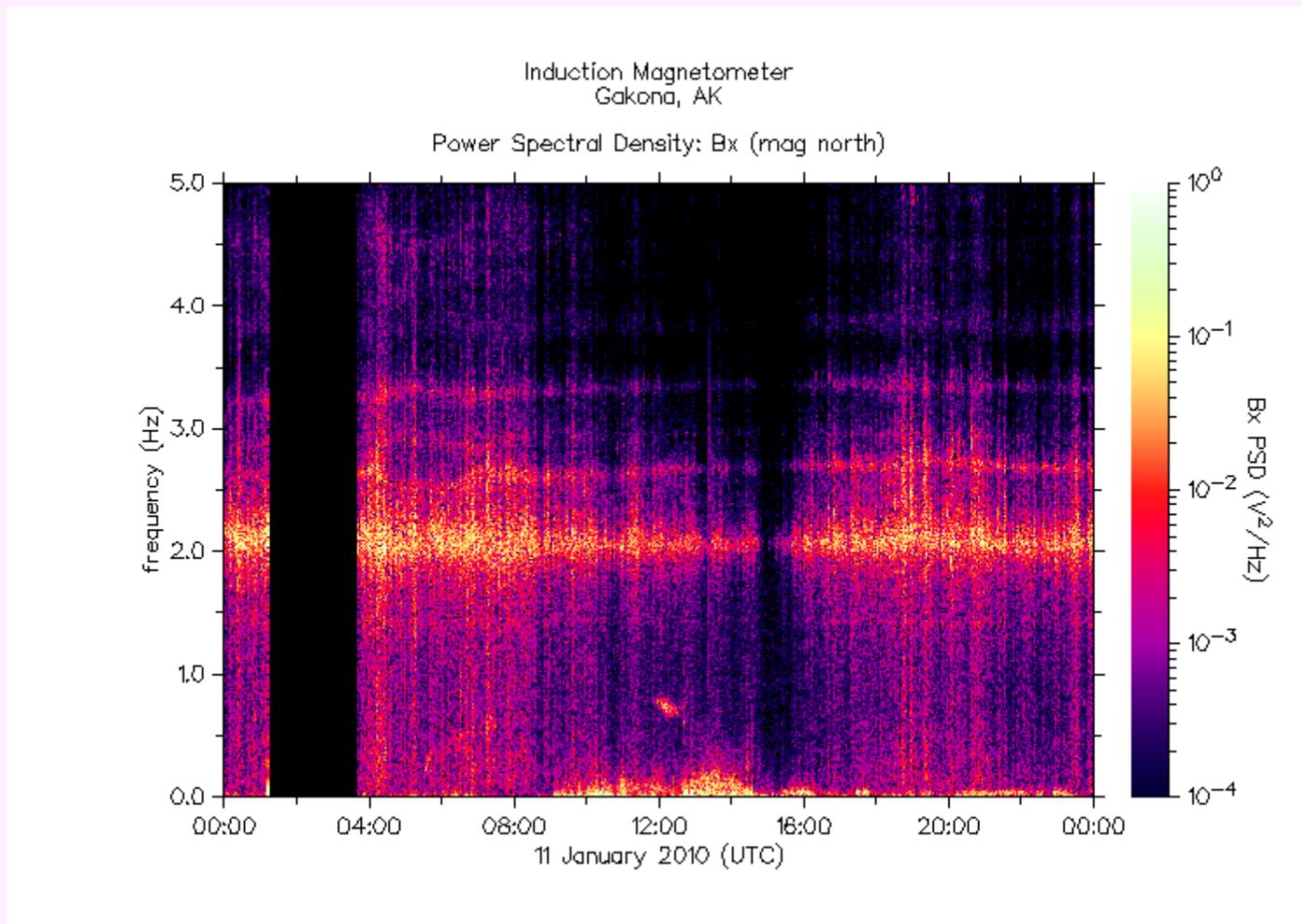
The magnetometer spectrograph (above) for the 09-11 March 2011 timeframe shows some significant 'rumbling' associated with the solar flairs in the extreme-low frequency range below 0.4 Hertz, which occurred repeatedly for 22 hours prior to the big quake in Japan. There are some strong Schumann waves evident at the time when the brunt of the solar flare hit the ionosphere around 09:00 till 10:00, but these are weak and not long-lasting while the very low frequency component was extremely strong (white is the top of the intensity scale.) These 'rumblings' continued till the quake occurred.



[Source](#)

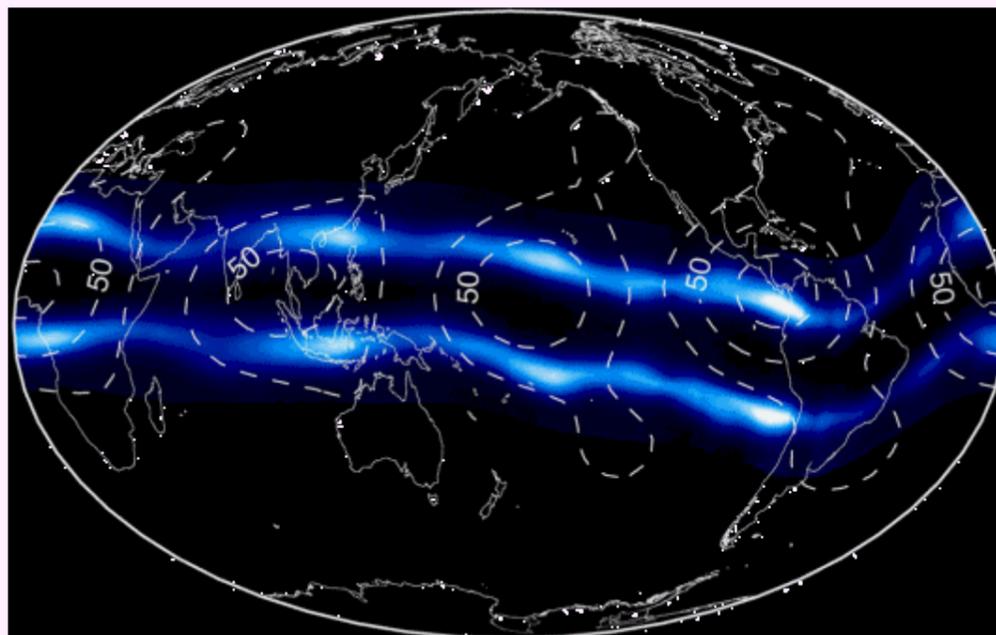
The same type of phenomenon, though much weaker, can also be seen in the 07 March, 2011 spectrograph for the timeframe prior to the (much weaker) foreshocks in Japan that occurred on

March 9 (before the solar flare arrived). What we see occurring here seems to suggest that the so-called foreshocks and the main shock might be separately-triggered events, both caused by unrelated, solar-induced low frequency disturbances that were distributed throughout the ionosphere, especially in areas of the node-points of the equatorial electrojets.



[HAARP on Haiti earthquake day](#)

A similar disturbance, but at an even lower frequency, and weaker still, is evident in the 11 January 2010 spectrograph on the day prior to the Haiti quake in 2010. Consider that Haiti too, is close to a node point.



Credit: NASA/University of California, Berkeley. - also [The Interconnected Sun Part One](#)

If an Alfvén Wave was induced at the node points at the coast of South America and in South Asia, the induced Alfvén wave would be projected northward along the magnetic field lines towards the Earth magnetic pole (8 degrees south from the geographic pole at 114W - slightly west of Ellesmere Island). On the American continent this path would be located half-way between Haiti and California. We had the big earthquake in Haiti at the beginning of 2010. We have also seen a large increase in

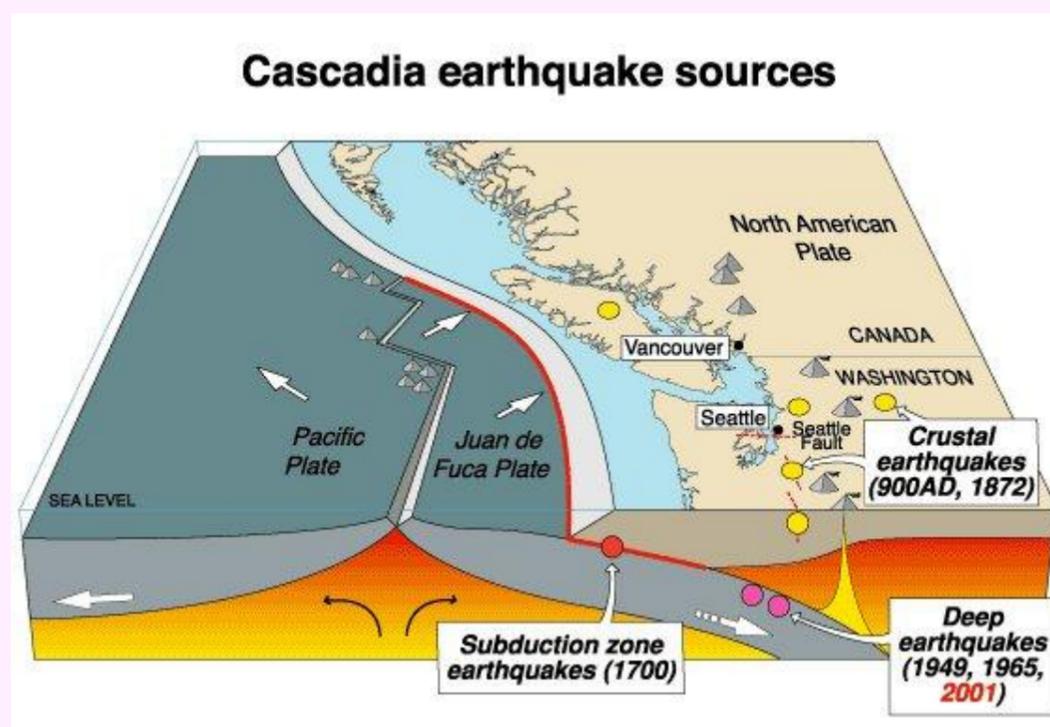
the number of earthquakes in California in 2010, up to 6 in a single year.

See: [List of Earthquakes](#)

While low-frequency solar-induced rumbling may trigger earthquake events, it is also possible to artificially induce low-frequency rumbling with the induction of pulsed shocks into the polar electrojet by pulsed heating, causing electric disruptions that would be transmitted throughout the ionosphere in the same manner as the solar inductions are transmitted. This would explain the sharp increase in earthquake occurrences during the timeframe of the operation of HAARP and its upgraded power after 2007. However, this increase occurs only in the context of the dynamics of the Earth's natural tectonic forces that nothing in the world, nor the Sun, can advance, or prevent.

Earthquakes are the result of tectonic forces.

It is not possible to manufacture earthquakes. External factors can only influence the triggering of events that must happen due to the structure of our Earth. Which means that an increase in the frequency of earthquakes is actually desirable. Since nothing can stop or hinder the grinding of the tectonic plates against each other that are driven by convention forces deep within the Earth, it is desirable to have the movements to occur as smoothly as possible, preferably in countless little steps, rather than in giant single steps spaced long periods apart.



[The Cascadia subduction zone](#)

When nothing happens in a subduction zone, for a long period, the danger increases for big events to occur, as we saw it in Indonesia along the Java fault line that had so little movement in the recent past that it was deemed dormant. A similar situation exists in the Cascadia subduction zone and in the northern portion of the San Andreas fault.

It had been proposed at one point around the 1980s or 90s that fluids should be pumped into to fault line to make the tectonic plates slide more readily, causing little tremors to prevent the big one. The idea was scrapped as impractical, but the concept still applies. The currently observed occurrence of a sharp increase in the number of earthquakes in California may be evidence of a good thing, indicating that stress is being gradually released. If the HAARP project has the effect to cause this increase in the number of earthquakes, it should be applauded. The scientific irony is that no earthquake comes too soon. The bad earthquakes happen when they come far too late, by which they become extremely big ones when they finally do happen.

What we see happening in California with the increase in earthquakes, which seem frightening on the

surface, is actually good news. California had registered 44 earthquakes in the 330 years between 1680 and 2000 (0.13 per year), many of them big ones. Now we have registered 6 in a single year, in 2010 (a 46-fold upturn). This is reason for celebration rather than reason to fear. Would there be a connection between the long delayed Haiti quake that (finally) happened, and the California upturn in earthquakes? The answer appears to be, yes.

If an Alfvén Wave was induced in this region, one would expect to see such a pattern. The same would also happen in South Asia with the node point at 110E over Indonesia and 135E just east off Japan. The Alfvén waves would then follow essentially the magnetic lines. In this case, one would expect to see also an upswing in the number of quakes also in Australia, which has indeed happened (11 in ten years 2000 till 2010, vs. 36 over 180 years going back to 1842 - see: [List of Earthquakes](#)).

Earthquake warning detection

That electric currents are flowing underground is evident in the lightning that is often erupting together with major volcanoes, or even external lightning or changing light-pattern in clouds prior to earthquakes and so on. Furthermore, when electric currents are interrupted, corresponding changes in magnetic fields occur that are often picked up by birds and fish that typically navigate by magnetic fields. It has been suggested that major underground electric perturbations can result into the triggering of earthquakes that are not directly linked to tectonic movements, such as within the tectonic plates, as in Australia, which has seen a sharp increase in earthquakes, but which sits in the 'middle' of its own tectonic plate, relatively far from the subduction fault lines. The suggestion that earthquakes can be triggered anywhere, independent from the fault lines, seem to be confirmed by the sharp increase in the number of earthquakes that have occurred in Australia since the startup of the HAARP activity. The numbers seem to suggest that the HAARP activity, or whatever causes underground electric perturbations, is not merely triggering earthquakes that would normally erupt anyway, but is triggering numerous softer ones, and far more than have historically erupted, with 14-fold to 72-fold increases in the number of eruptions, but also bigger ones that would normally erupt much later and more intensely.

While many conspiracy theories have been woven around the possible interconnection of the HAARP project being designed to intentionally create earthquakes for political objectives, which in many cases the timing coincidence seems to suggest, no smoking-gun empiric proof exists or is in fact possible for such a case. Most likely the sharp increase in earthquakes during the 11 years of the HAARP being in operation represents merely a collateral effect that is inherent in the type of research that is being conducted, which may in fact be highly beneficial in the long run as it may prevent the buildup in the tectonic system towards monster quakes way beyond the range of the current big ones, as is presently feared may be happening along the Cascadia fault line that has experienced no major quakes in 300 years. The upturn in earthquakes that has been registered in Canada since the beginning of the HAARP era might have a softening effect on the Cascadia line, so that when the tectonic movement happens it will be weaker, or it delay it, or possibly prevent it altogether. In this context HAARP should be celebrated for its possible earthquake prevention potential.

The only action that would definitely settle the question of where the increase in earthquakes during the 2000-2011 timeframe originates, would be to shut the HAARP project down for a couple of decades, including all similar projects worldwide. If the number of earthquakes would fall back to the level of the statistical background it would sufficiently prove the HAARP's connection. However, for this to be possible mankind would have to shut down the Cold War that is still ongoing among it, for which such exotic military research projects, such as HAARP, are carried out. Until such a time, the 2011 earthquake in Japan will continue to stand in suspicion of being collateral damage in the pursuit of defense research that is prompted by the still-ongoing Cold War for which military preparedness is deemed necessary and its related actions. Ultimately, the suspicion will not be erased until all the cards are laid on the table and more extensive scientific development causes a raised awareness in society of the tectonic dynamics of our planet, and its

interacting electric dynamics, and the interaction of the solar dynamics. When this awareness is raised, the recognition will also be made that the Earth is surrounded by a self-renewing electric power resource that is a part of the galactic electric power circuit with a power density sufficient to power the Sun and to meet our rather modest terrestrial energy needs for all times to come. Once we get to this point the dynamic management of our planet, including earthquake prevention, will also come onto the agenda, for which the HAARP experience may lead the way in the right direction.

The objective of science

The objective of science is in part to make our planet as livable for humanity as is scientifically possible by discovering its dynamics and utilizing existing principles to enrich it and make it more beautiful and more secure. Earthquake prevention falls into this category for a well-managed world. If the increase in earthquakes since the startup of the HAARP project in 1998, and the later accelerated increase in earthquake occurrences after the power-upgrade of HAARP, all proof to be connected, we would have a trend established thereby towards a potential earthquake management regime on the HAARP principle, superceding mere forecasting. Artificially increasing the earthquake frequency would 'soften' the ground, whereby the really big ones would become a thing of history, perhaps even to the point that all earthquakes become reduced to a level where no damage is incurred.

Till we get to to this point science can open the horizon to more earthquake resistant housing produced with the strongest building material available, which is heat-formed basalt (a dozen times stronger than steel at a third of the weight). See: [Free houses by the millions](#) Most earthquake fatalities result from the collapse of buildings. Few of the modern suburbs would survive a 9.2 quake, which the long expected "big one" along the San Andreas Fault and Cascadia Fault may produce if the buildup towards it, which has been going on for hundreds of years, is not softened. Tsunami wave barriers can also be constructed with the help of scientific management. And more than this, if the scientific concern is raised to such levels that earthquake prevention becomes a factor, the more crude dangers caused by war, and the more deadly danger caused by underdevelopment and starvation, will also become prevented.

Maybe one day, hopefully soon, we will learn to create the kind of new science-based renaissance world that invariable becomes a world without war - a dream that has been dreamed for millennia. On this road, hopefully, HAARP will be exonerated and become recognized for its potentially beneficial effect. This path still lies before us though it is near. War is not inevitable, only peace, trust, and humanity are inevitable. Peace always resumes when the forces of war become exhausted and surrender their field to love, care, scientific development, and the creative humanity that is inherent in us all, as human beings.

For more on the subject, with more details, see: [Epoch of Tears](#)

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