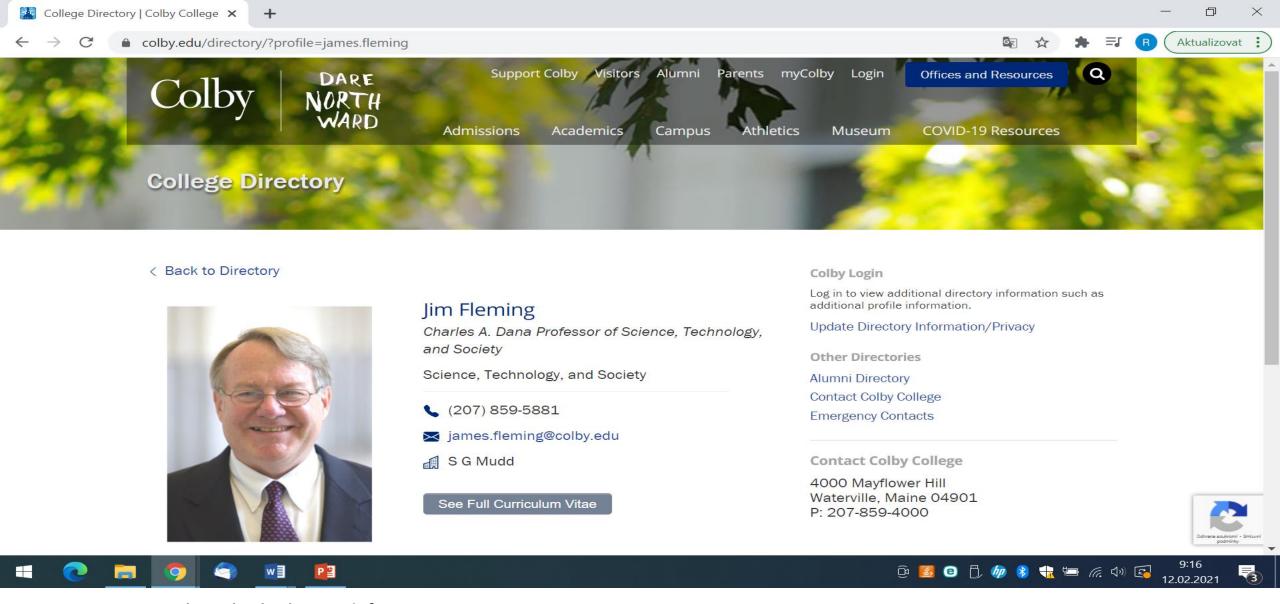
DUŠE K - O OVLIVŇOVÁNÍ POČASÍ S RADOVANEM ©

Zpracoval: Radovan Dluhy-Smith

PROČ SE OVLIVŇOVÁNÍM POČASÍ ZABÝVAT

- ZDRAVÍ ČLOVĚKA
- STAV PŘÍRODY
- EKONOMIKA
- BEZPEČNOST STÁTŮ A SPOLEČNOSTI



"Masivní osévání mraků tohoto typu a ty, které byly navrženy již v 50. letech Irvingem Langmuirem, mají takový rozsah, že mohou mít dopad na klima." vědecký historik Jim Fleming (@JFlemingHistory) December 4, 2018



Kindle \$15.83

Hardcover \$27.95

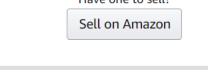
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As alarm over global warming spreads, a radical idea is gaining momentum. Forget cuts in greenhouse gas emissions, some scientists argue. Instead, bounce sunlight back into space by



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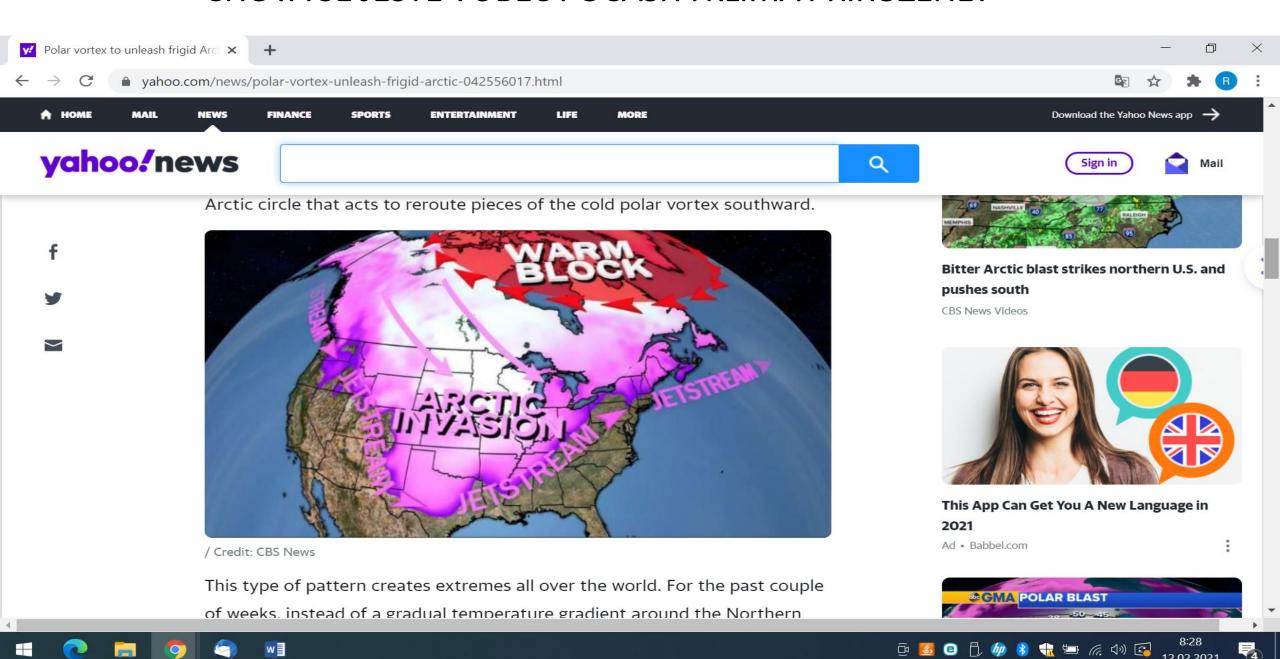




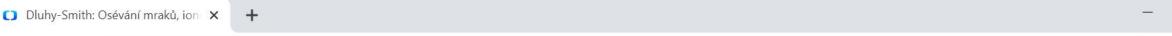




CHOVÁ SE JEŠTĚ VŮBEC POČASÍ A KLIMA PŘIROZENĚ?



ÚVOD A MÉ ČLÁNKY













KORONAVIRUS

DOMÁCÍ SVĚT REGIONY

EKONOMIKA

KULTURA

RA M

MÉDIA VĚDA POČASÍ

PODCASTY

ARCHIV 24

VIDEO

SPORT

Dluhy-Smith: Osévání mraků, ionosférická zrcadla. Co když klima doplácí na pokusy s počasím?

28.10.2019

Pokusy řídit počasí mohly zásadně ovlivnit klima ve světě, míní Radovan Dluhy-Smit z katedry rozvojových a environmentálních studií Univerzity Palackého v Olomouci. V komentáři nabízí jiný pohled na globální oteplování.



























DOMÁCÍ SVĚT REGIONY MÉDIA VĚDA POČASÍ **KORONAVIRUS EKONOMIKA** KULTURA **PODCASTY ARCHIV 24** VIDEO SPORT

Komentář: Poručíme větru, dešti. Možné nedozírné následky klimatického inženýrství

AKTUALIZOVÁNO 7.5.2019

"Ti, kteří poroučí počasí, mohou vládnout světu," prohlásil již v roce 1962 prezident Spojených států Lyndon B. <u>Johnson</u>.















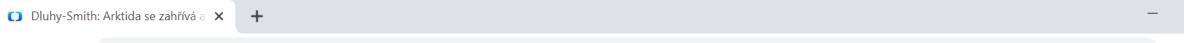


















Studio ČT24

DOMÁCÍ SVĚT REGIONY **KORONAVIRUS**

EKONOMIKA

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MÉDIA VĚDA POČASÍ

PODCASTY

ARCHIV 24

VIDEO

SPORT

Dluhy-Smith: Arktida se zahřívá a mocnosti vyhlížejí zmrzlý poklad. Ropu, plyn i vzácné kovy

16. 1. 2020

Od <u>dávných</u> časů lákaly Grónsko a Arktida různé <u>dobrodruhy</u>, ale i <u>vědce, průmyslníky</u> a světové velmoci pro jejich nerostné bohatství a strategické umístění. Velkou překážkou bylo vždy zdejší nehostinné klima. Koneckonců si zde zažil své i moravský cestovatel a vypravěč Jan Eskymo Welzl, který v těchto končinách <u>strávil</u> mnoho let.

Čekání na ih.adscale.de..















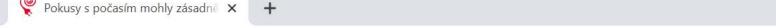












energyhub.eu/sk/article/detail/450616-pokusy-s-pocasim-mohly-zasadne-prispet-ke-globalni-zmene-klimatu



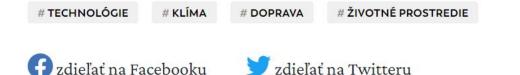


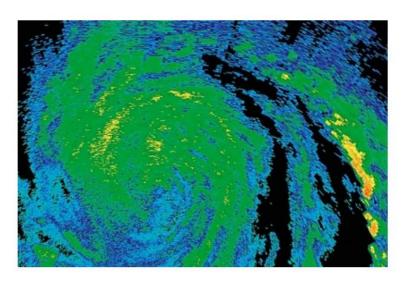


Pokusy s počasím mohly zásadně přispět ke globální změně klimatu

PRO-ENERGY Martin Havel 圖 30.11.2020 (h) 18:00

říká pro PRO-ENERGY magazín Radovan Dluhy-Smith z Katedry rozvojových a environmentálních studií Univerzity Palackého v Olomouci.





ABSTRACT: Weather modification has an important impact on climate change, says in an interview Radovan Dluhy-Smith from the Department of Development and Environmental studies at Palacký's University in Olomouc.

14. medzinárodná konferencia ENEF 2020

圖 09, 02, 2021 - 10, 02, 2021

A Hotel DIXON, Banská Bystrica, SK



















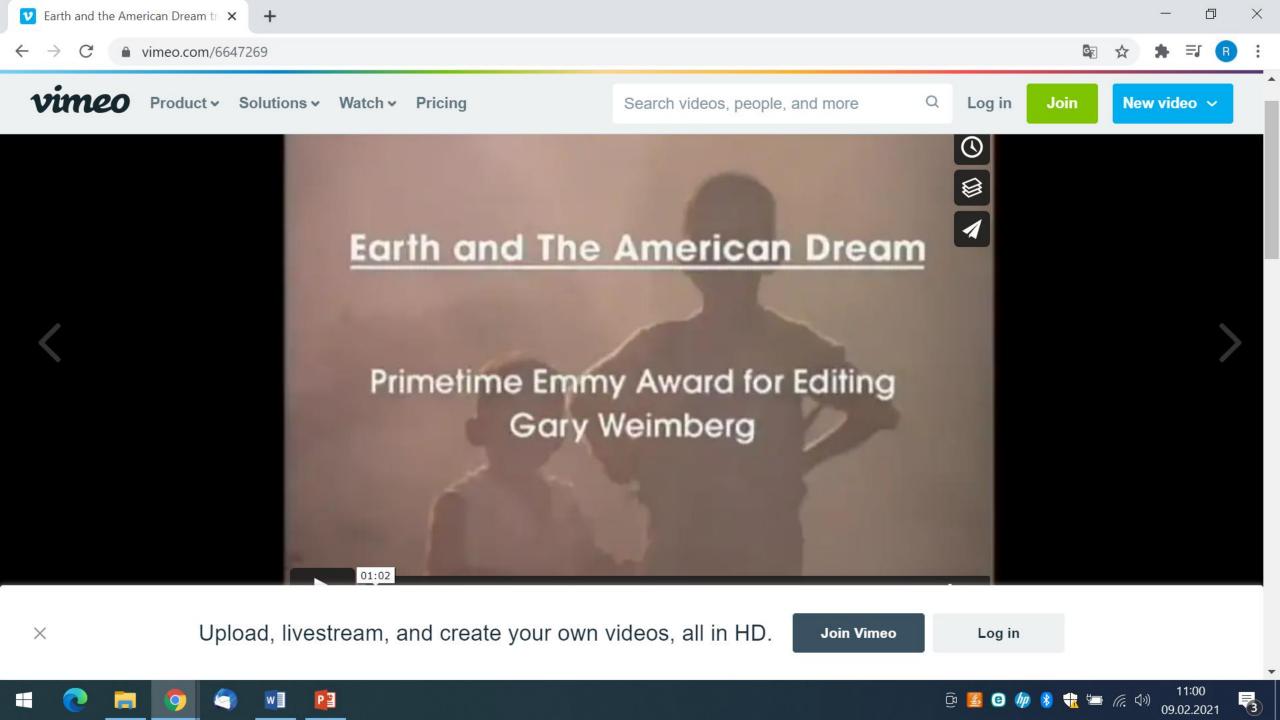




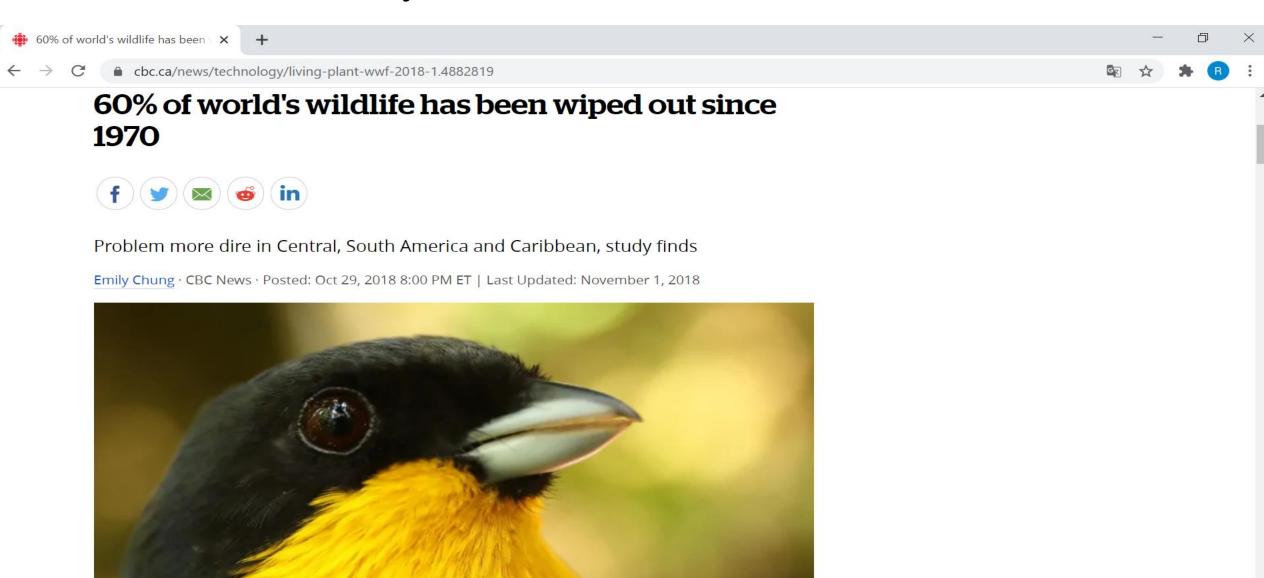




KONTEXT A SOUVISLOSTI (ILUZE ODDĚLENOSTI) - SNAHA CIVILIZACE OVLÁDNOUT, PODMANIT SI PŘÍRODU, DOPADY



Od 70. let jsme zlikvidovali 60% divoké zvěře









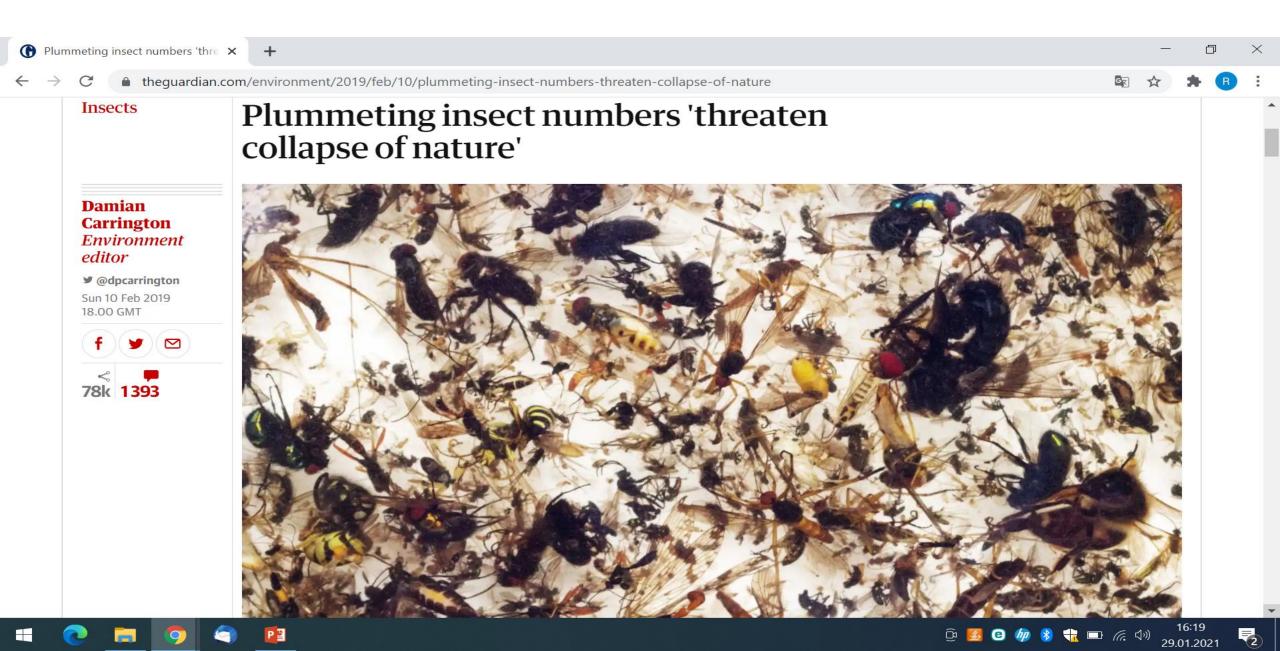




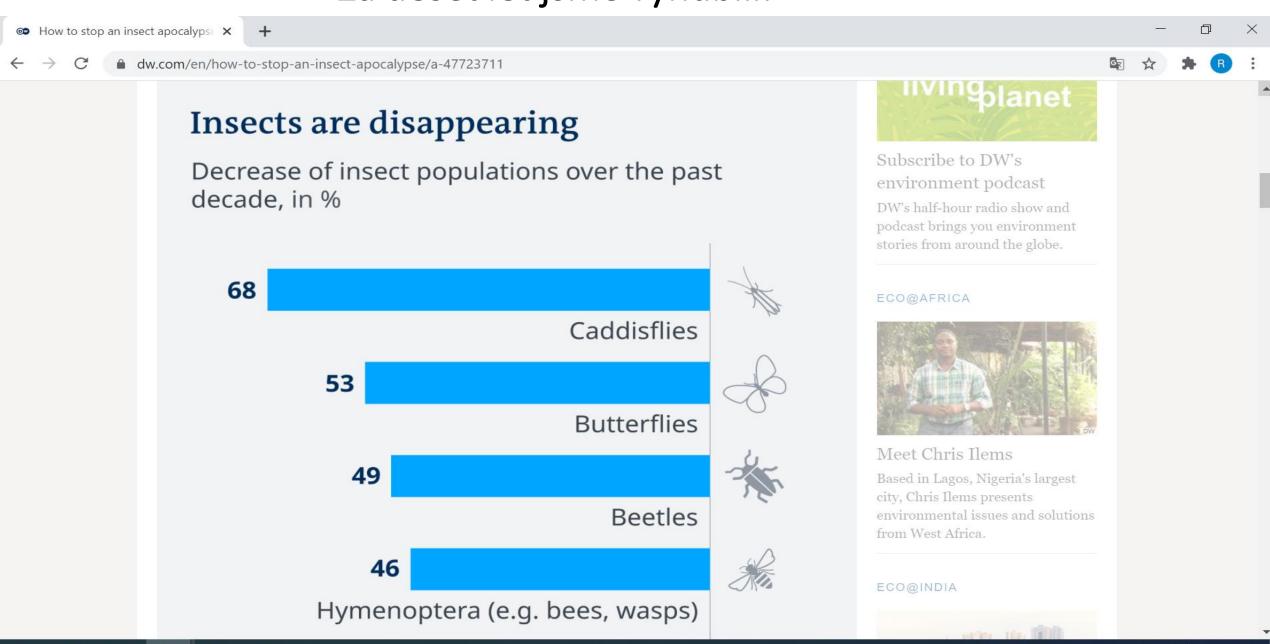




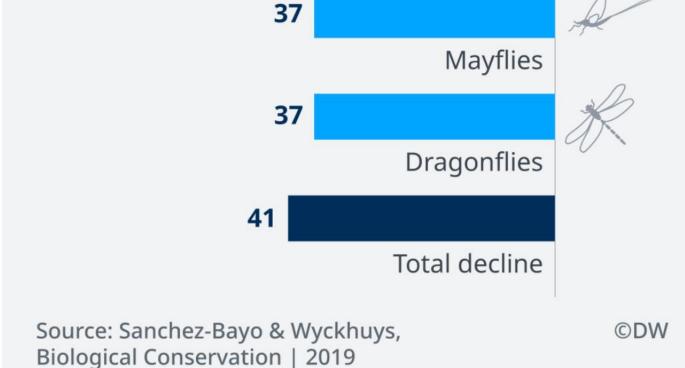
Rapidní snížení množství hmyzu hrozí kolapsem přírody



Za deset let jsme vyhubili:







The results are "shocking," says Francisco Sanchez-Bayo, environmental scientist at the University of Sydney and co-author of the study. He predicts "catastrophic consequences."

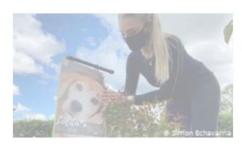
"The word catastrophic is appropriate because the disappearance of insects brings with it the starvation of myriad vertebrates that depend on them, and therefore the collapse of entire ecosystems," he told DW.

Read more: 'We cannot survive without insects'

Insects don't only play an important role in our food production, by providing a free pollination

pollution in order to relieve the environment and improve our quality of life. 🕒

GLOBAL IDEAS



Composting dead pets to grow new life in Colombia

A Colombian start-up allows bereaved pet-owners to return their companions to the cycle of



















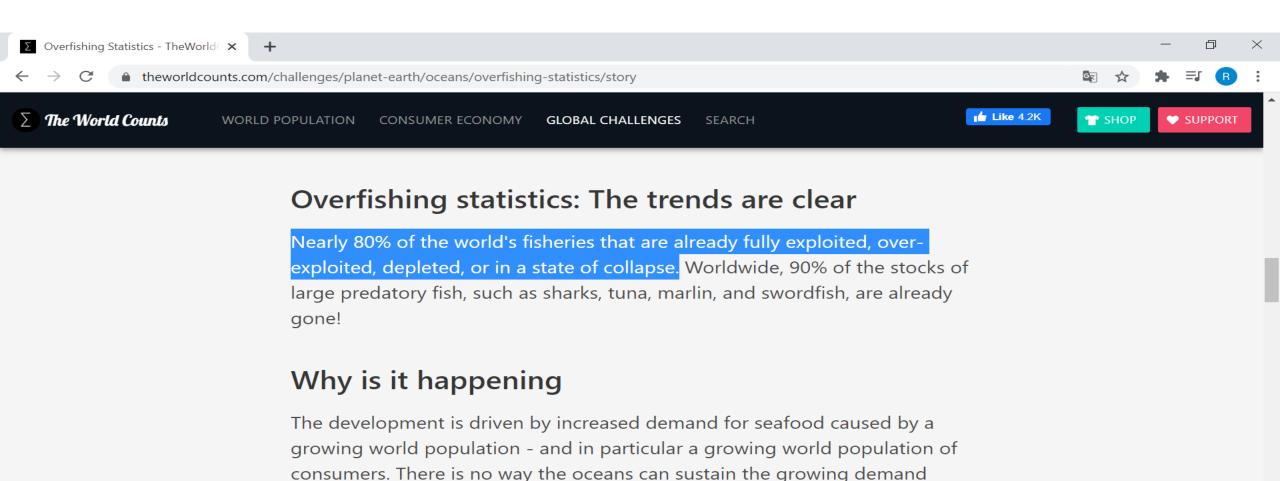








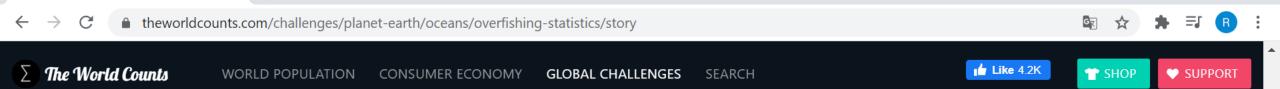
Vychytali jsme 80% z celkového množství ryb v oceánech



"It's clear that fish and chips will be off the menu within our lifetimes if we don't act now"

from a growing world population unless major changes take place.





2048 No more fish

The world's oceans could be virtually emptied for fish by 2048. A study shows that if nothing changes, we will run out of seafood in 2048. If we want to preserve the ecosystems of the sea, change is needed.







Σ Overfishing Statistics - TheWorld (×













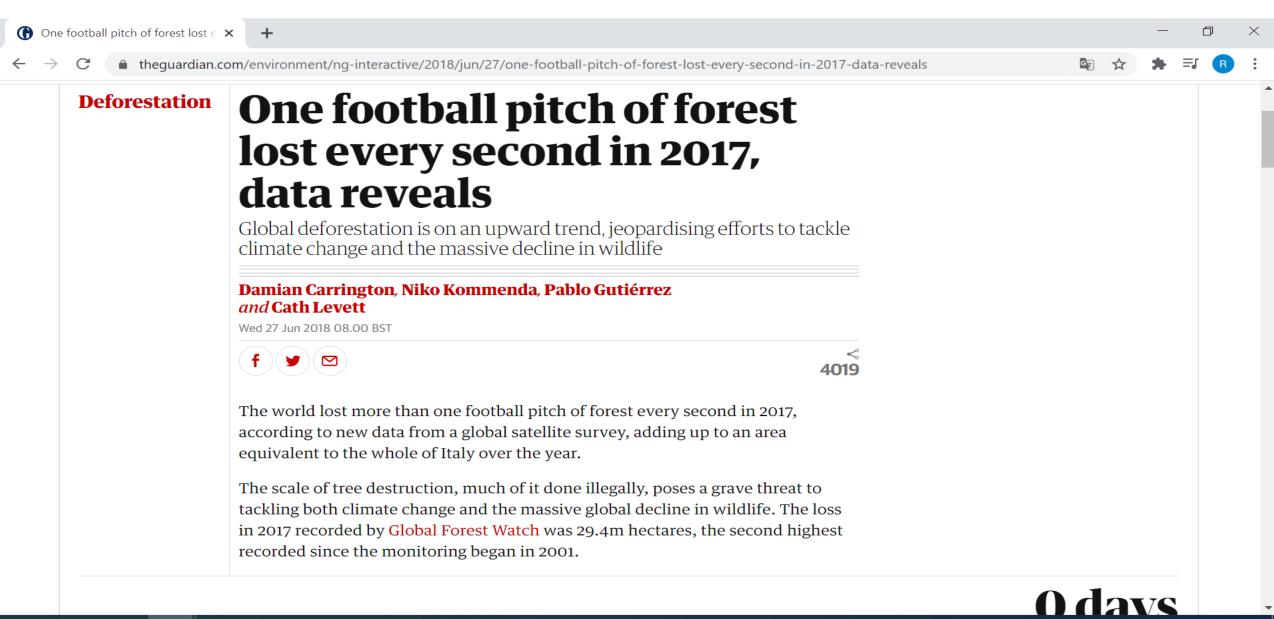








Každou sekundu vykácíme les o rozloze fotbalového hřiště



















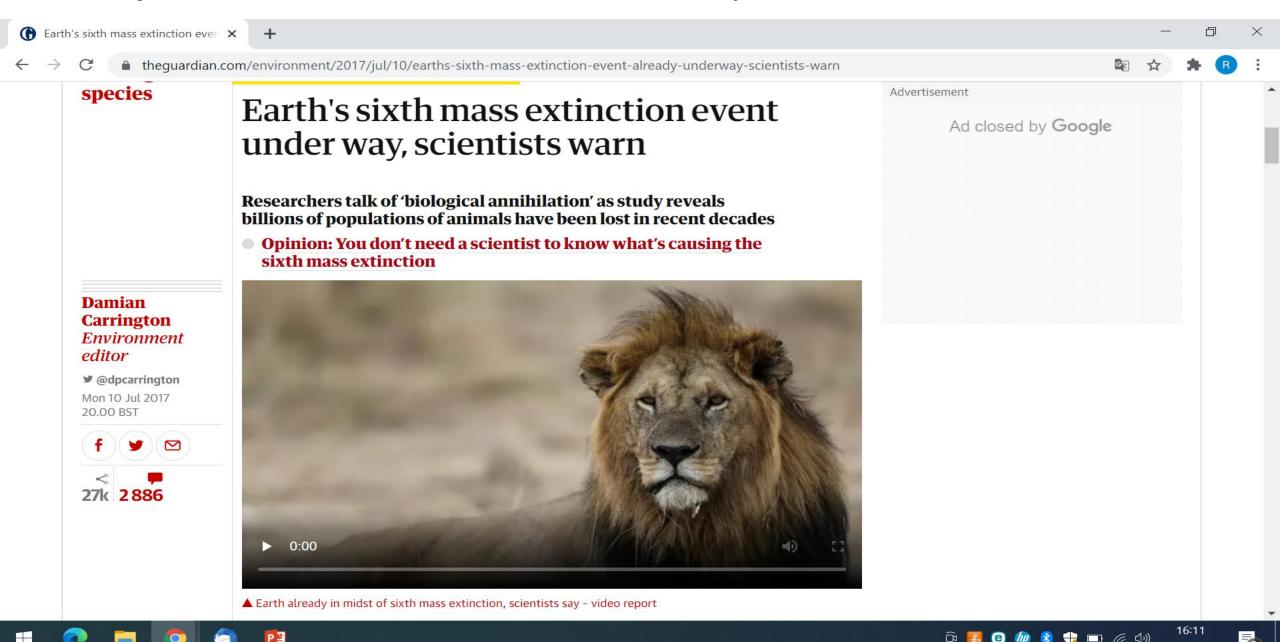


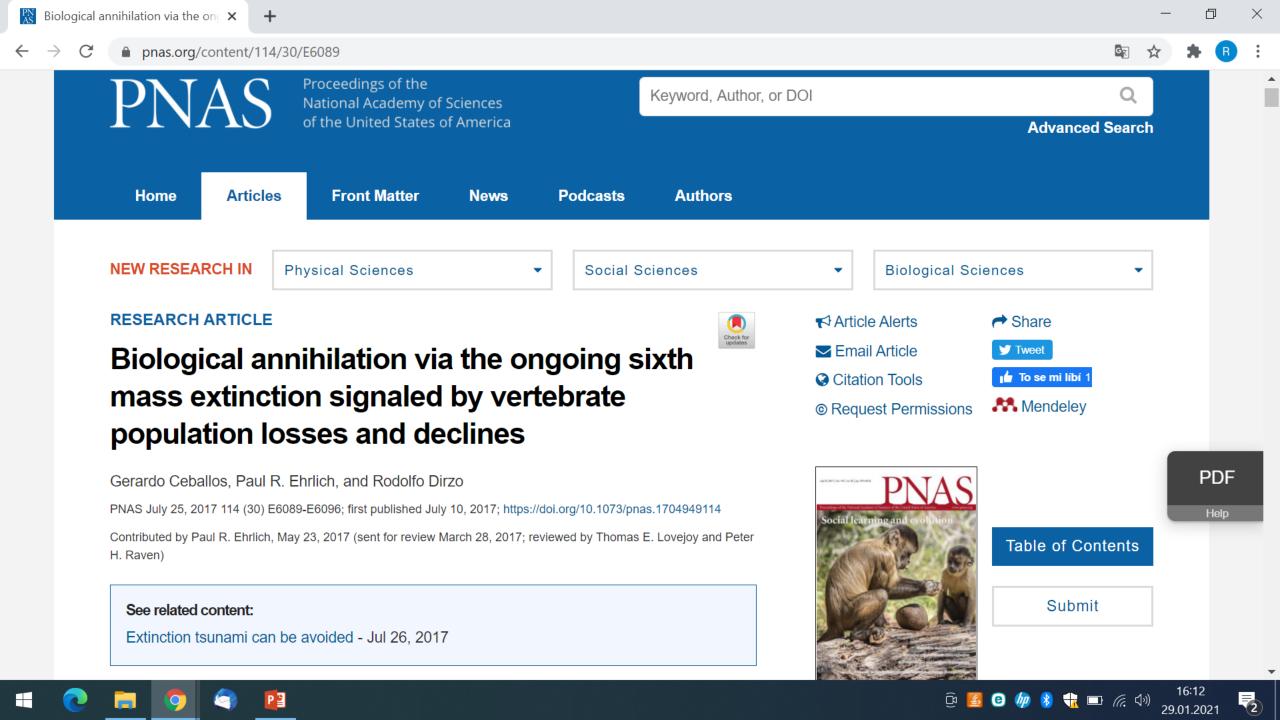






Žijeme v období šestého masového vymírání druhů, tvrdí vědci





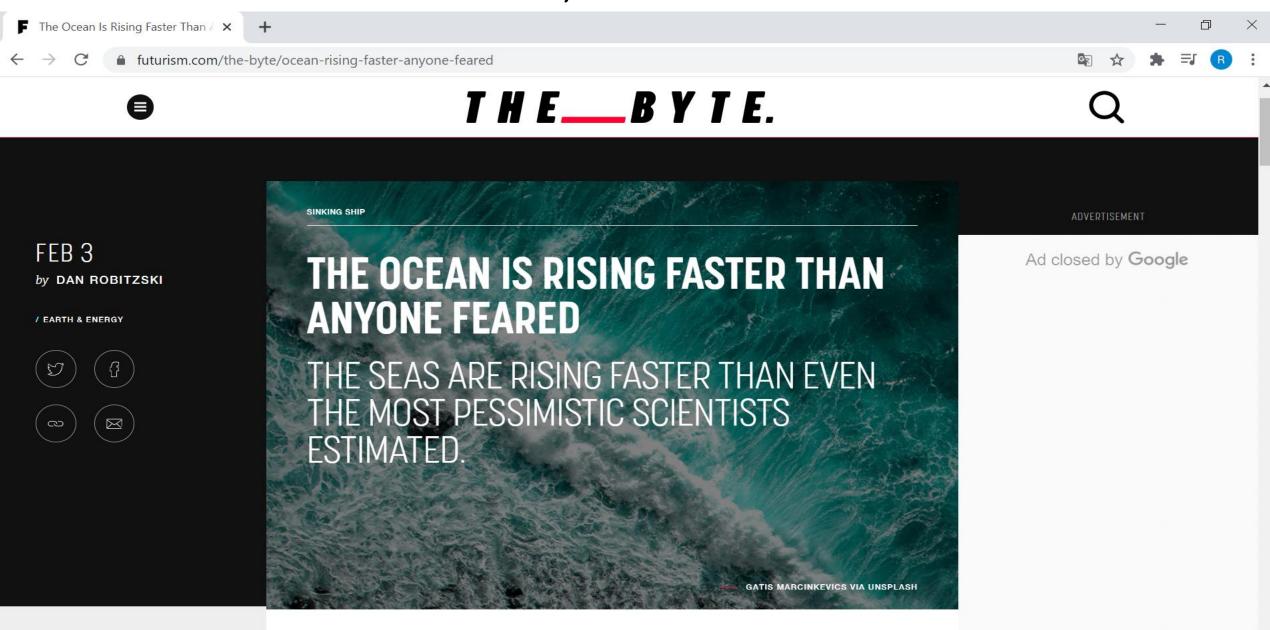
PŘES STUDIUM A VÝZKUM KLIMATICKÝCH ZMĚN K OVLIVŇOVÁNÍ POČASÍ – ROLE MRAKŮ

Varování o klimatu a riziko společenského kolapsu





LEDY TAJÍ MNOHEM RYCHLEJI, NEŽ TY NEJPESIMISTĚJŠÍ SCÉNAŘE

























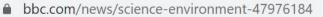


















Climate change: Sir David Attenborough warns of 'catastrophe'

By Matt McGrath Environment correspondent

(1) 18 April 2019



UK climate change protests



Top Stories

Internet shutdown fails to stop Myanmar protests

Access appears to be partially restored as tens of thousands protest against the military coup.

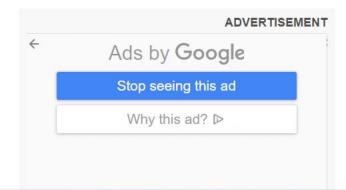
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'Limited' SA variant protection from Oxford jab

1 hour ago

















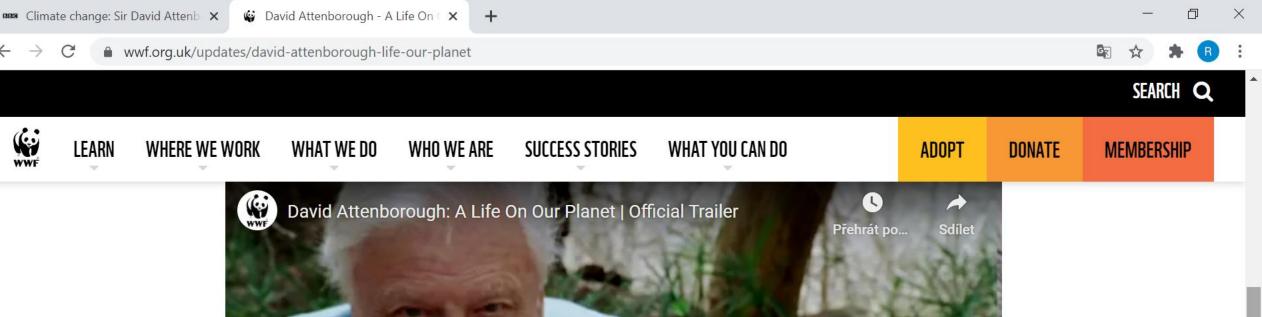














Colin Butfield, WWF's Executive Producer for the film, says: "For decades, David has brought the























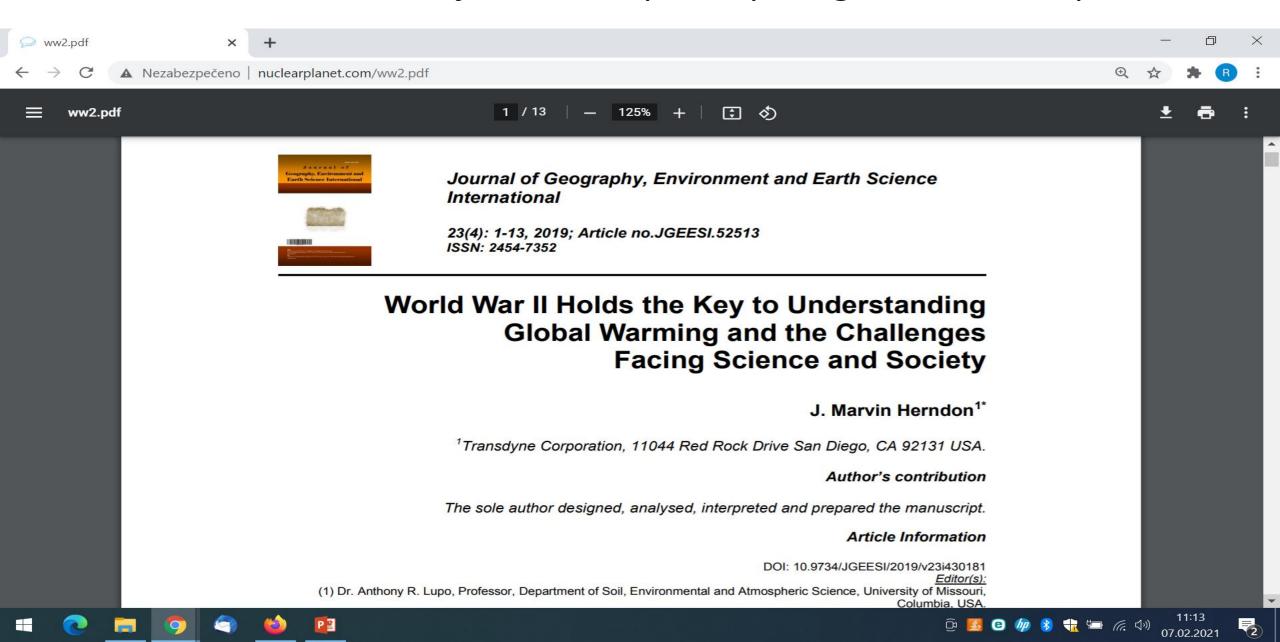


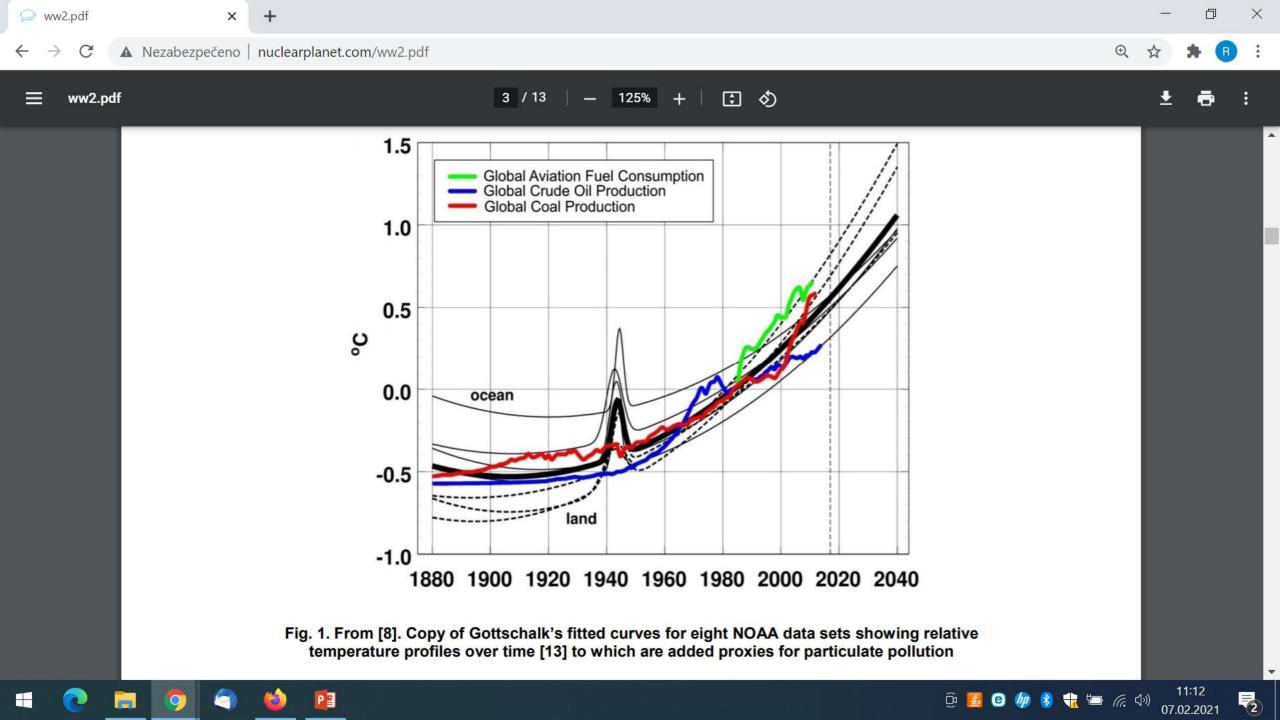


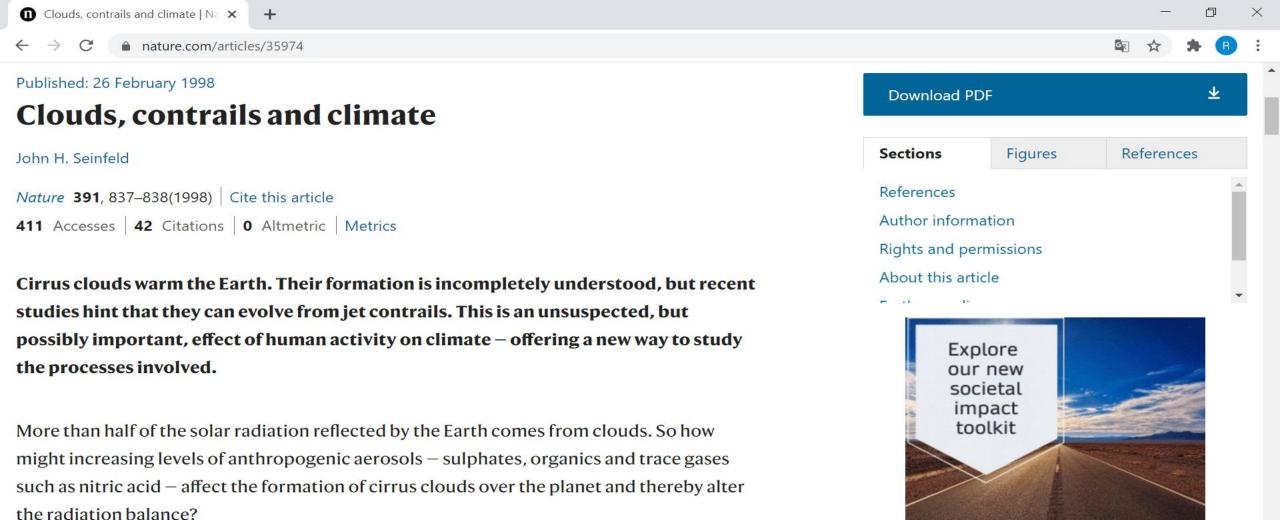




Druhá světová válka je klíčem k pochopení globálního oteplování







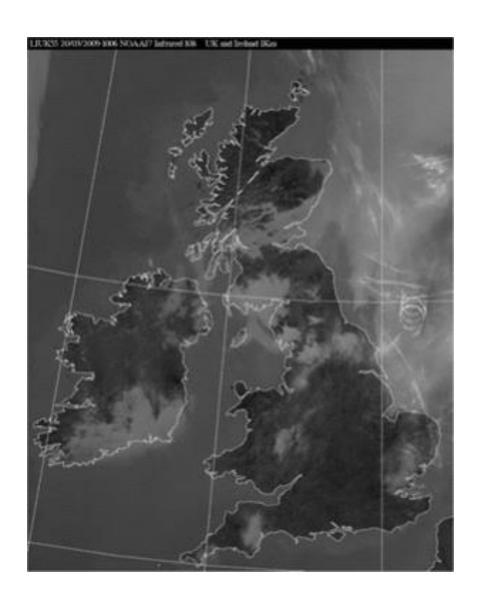
Cirrus clouds form in the upper troposphere when supercooled water droplets or ice



SPRINGER NATURE

© 📕 🕒 ル 🐧 🚼 🗁 🦟 다)

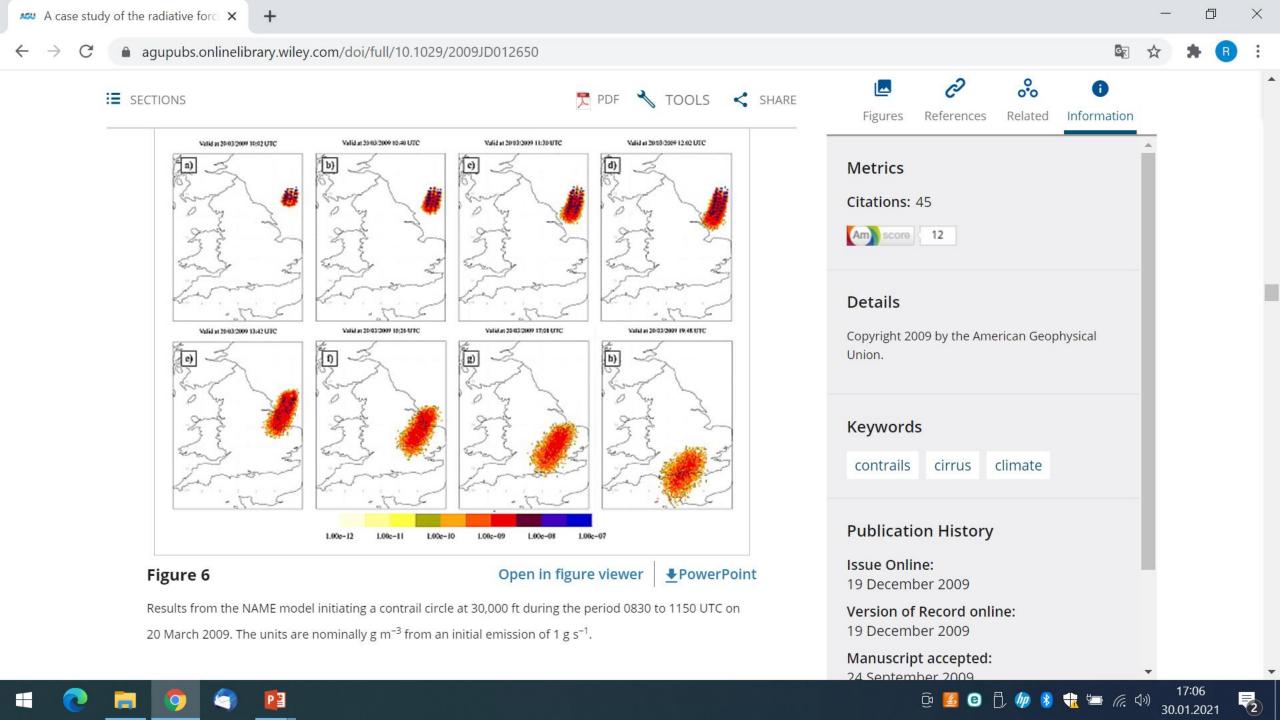
Cirrus Mraky> Skleníkové plyny

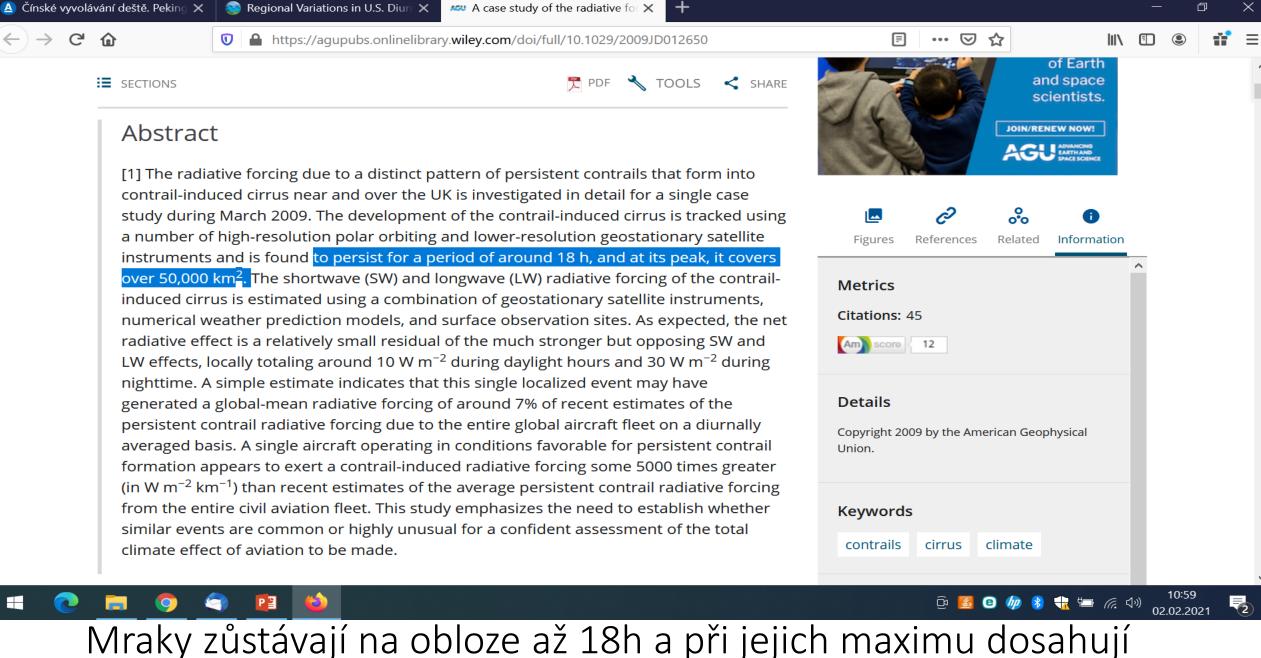


"Kondenzační stopy za letadly se mění ve vysoké cirrus mraky, které je těžko rozeznat od přírodních mraků. Tyto rozšiřující se kondenzační stopy mohou dnes zapříčinit více globálního oteplování než veškerý oxid uhličitý emitován do ovzduší od začátku letectví."

Boucher, Olivier (Sorbonna). "Atmospheric science: Seeing through contrails." Nature Climate Change 1.1 (2011): 24. – PDF

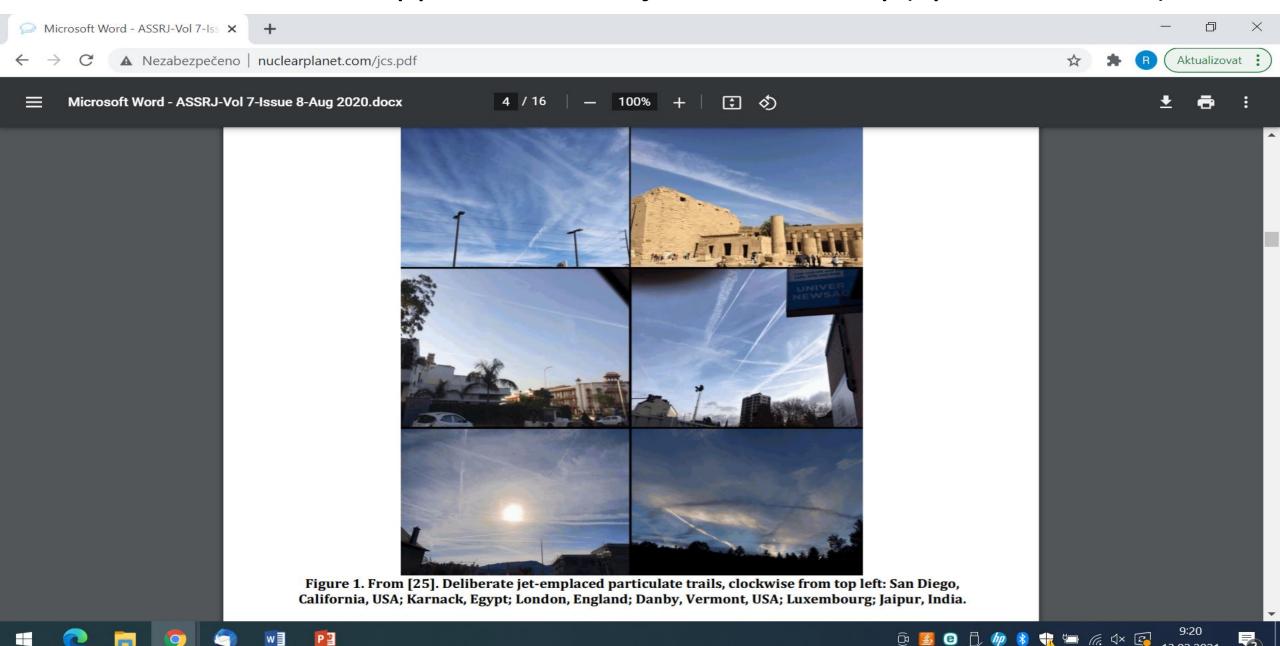
Haywood, J. M., R. P. Allan, J. Bornemann, P. Forster, P. N. Francis, S. Milton, G. Rädel, A. Rap, K. P. Shine, and R. Thorpe (2009), <u>A case study of the radiative forcing of persistent contrails evolving into contrail-induced cirrus</u>, J. Geophys. Res.³⁰114, D24201, doi:10.1029/2009JD012650.



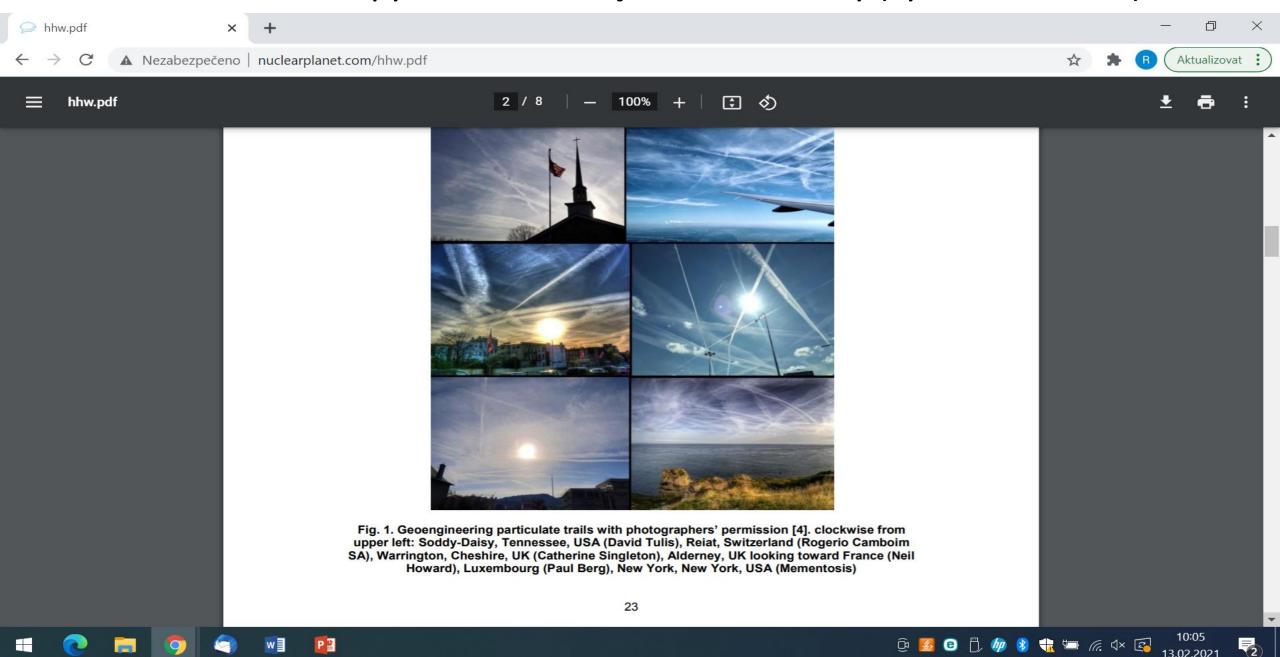


Mraky zůstávají na obloze až 18h a při jejich maximu dosahují rozlohy přes 50,0000 km²

Kondenzační stopy se transformují na cirrus mraky (výška 6km a více)



Kondenzační stopy se transformují na cirrus mraky (výška 6km a více)



Zhoršují kondenzační stopy (*zplodiny*) za letadly klimatické změny? Ano, problém se bude jenom stupňovat. Efekt globálního oteplování se do roku 2050 až 3x, protože letecká doprava se zvyšuje. Do airplane contrails add to clim X nbcnews.com/mach/science/do-airplane-contrails-add-climate-change-yes-problem-about-get-ncna1034521 **NBC NEWS NOW NIGHTLY NEWS** DATELINE TODAY MACH ENVIRONMENT Do airplane contrails add to climate change? Yes, and the problem is about to get worse. New research suggests the global warming effect will triple by 2050 as air travel increases.

Polovina emisí z letadel je zapříčiněná jen 1% lidí



































METODA OSÉVÁNÍ MRAKŮ







Čínské vyvolávání deště. Peking chce uměle upravovat počasí na území větším než Indie



Kateřina Vítková

5. 12. 2020 18:43

Už přes půl století Peking nasazuje do akce letadla i protiletadlové zbraně, aby s pomocí jodidu stříbrného nebo kapalného dusíku kvůli suchu měnily počasí a spustily déšť nebo sněžení. Popřípadě aby naopak rozehnaly mraky před důležitými akcemi, na které se upírá velká pozornost, jako byly loňské oslavy k 70. výročí vzniku Čínské lidové republiky.

























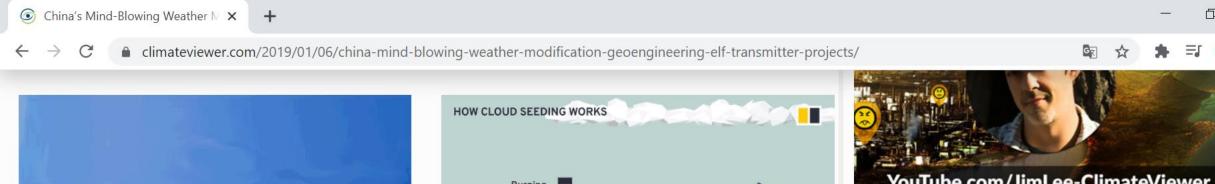


















"Never doubt that a small group of thoughtful, committed citizens can change the world; indeed, it's the only thing that ever has."

- Margaret Mead

"It is natural to man to indulge in the illusions of hope. We are apt to shut our eyes against a painful truth and listen to the song of that siren, till she transforms us into beasts. Is this the part of wise men, engaged in a great and arduous struggle for liberty? Are we disposed to be of the number of those, who having eyes, see not, and having ears, hear not, the things which so nearly concern their temporal salvation? For my part, whatever anguish of spirit it might cost, I am willing to know the whole truth; to know the worst, and to provide for it."

- Patrick Henry - Speech in the Virginia Convention, March 23, 1775



Attack Ideas, Not People







Medicína a přírodověda

■ 3pol.cz/cz/rubriky/medicina-a-prirodoveda/2228-cina-se-snazi-menit-pocasi

Článků v rubrice: 235

18. srpna 2018

Čína se snaží měnit počasí

Čínští vědci se snaží zvýšit sněhové srážky v oblasti, která je 3 × větší než Spanělsko. Cílem je získat další vodu potřebnou v boji proti obdobím sucha a na pomoc zemědělství. Pokud se projekt podaří, bude to mít velké dopady. Je založen na staré známé metodě vystřelování částeček jodidu stříbrného do mraků (cloud seeding), aby mraky uvolnily svou vlhkost ve formě sněhových nebo dešťových srážek. Pro účely "očkování mraků" se budou používat hořáky umísťované na úpatí hřebenů hor Tibetské náhorní plošiny, aby vytvářely silný tah horkého vzduchu vzhůru, který vynese částice jodidu stříbrného do mraků, kde by měly přispět k tvorbě ledových krystalků a k jejich přeměně ve sněžení. Vědci se domnívají, že to pomůže zvýšit roční průtok vody v řekách na množství až 10 trilionů litrů. Byl by to velký přínos pro výrobu potravin, která je dnes v důsledku sucha nebo záplav o 20 milionů tun za rok nižší než dříve. V současné době je v provozu již na 500 hořáků. Každý z nich stojí 8 000 dolarů. Jejich konečný počet má dosáhnout až desítek tisíc kusů.

Nejnovější články



V roce 2028 bude v Jakutsku postavena malá jaderná elektrárna

Ruská korporace pro atomovou energii Rosatom plánuje postavit jadernou elektrárnu malého výkonu s modulárním reaktorem RITM-200 poblíž obce Usť-Kujga v Jakutsku

















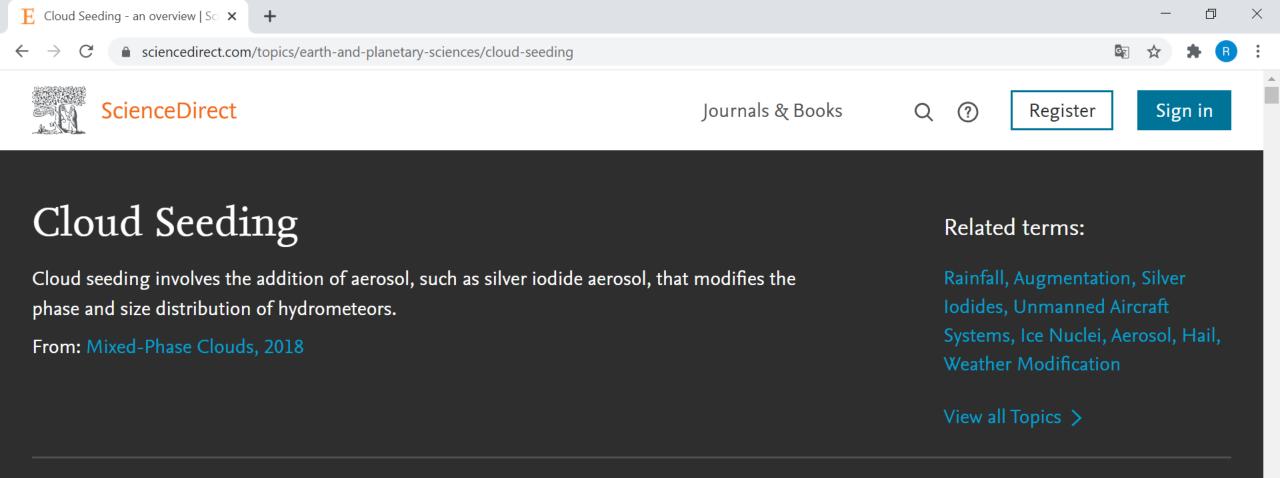








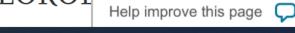




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Air and Space Resources and Cross-Border

MESOSCALE METEOROL





































the height of a cloud were restricted by a stable layer, the release of

the latent heat of fusion caused by artificial seeding might provide enough buoyancy to push the cloud through the inversion and up to its level of free convection. The cloud top might then rise to much greater heights than it would have done naturally. Figure 6.48 shows the explosive growth of a cumulus cloud that may have been produced by overseeding.









The right-hand side terms in this expression can be calculated from available data. It is obvious that Eqs. (7.29)–(7.31) are linear and, therefore, the arithmetic averages for small samples and theoretical expectations of both sides yield $\overline{D}_{
m G}=\overline{E}-1$; $\overline{D}_{
m G}=\overline{D}_{
m N}+\overline{D}_{
m S}$; and $\overline{D}_{
m S}=\overline{D}_{
m G}-\overline{D}_{
m N}$, respectively. In calculating the net effect of cloud seeding according to the above equations the following procedure must be applied:

1. Calculate the frequency diagram of the effectivity coefficient from available past observations. In this case, D_N becomes equal to D_G . Subsequently, calculate the natural deviation $D_N = E - 1$ and its frequency distribution for any desired daily period (5 day, 10 day, 20 day, etc.). Hence, for each period there will be a unique frequency distribution for D_N and, consequently, it is possible to calculate its statistical summary values such as the arithmetic mean, standard deviation, mode value, and so on. This distribution function is referred to as the "frequency DRM," the application of which is furnished in the following section. Let us denote the mean value of this frequency function by $\overline{D}_{
m N}$ and so if the frequency diagram is symmet Help improve this page

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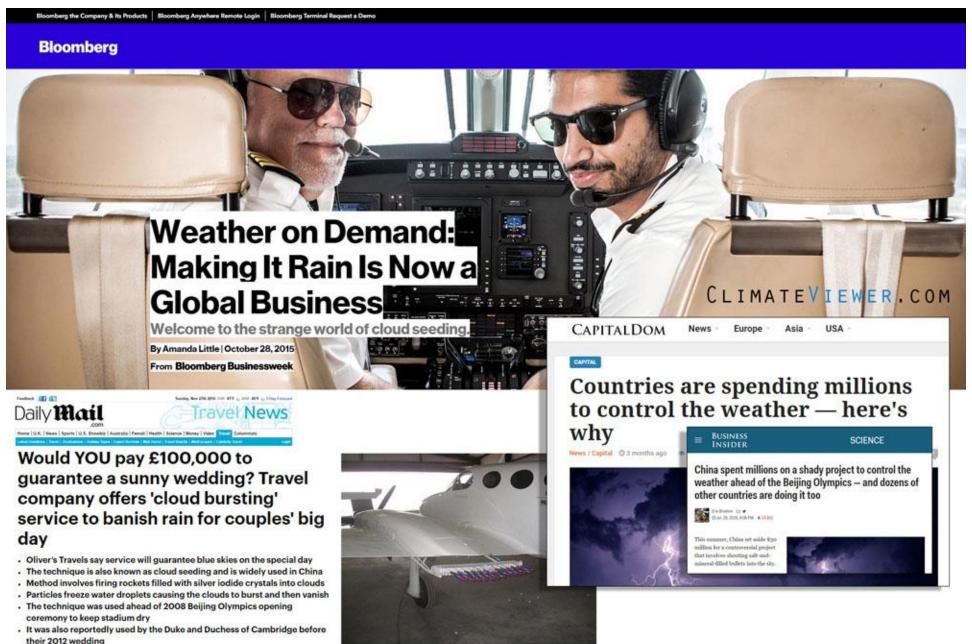


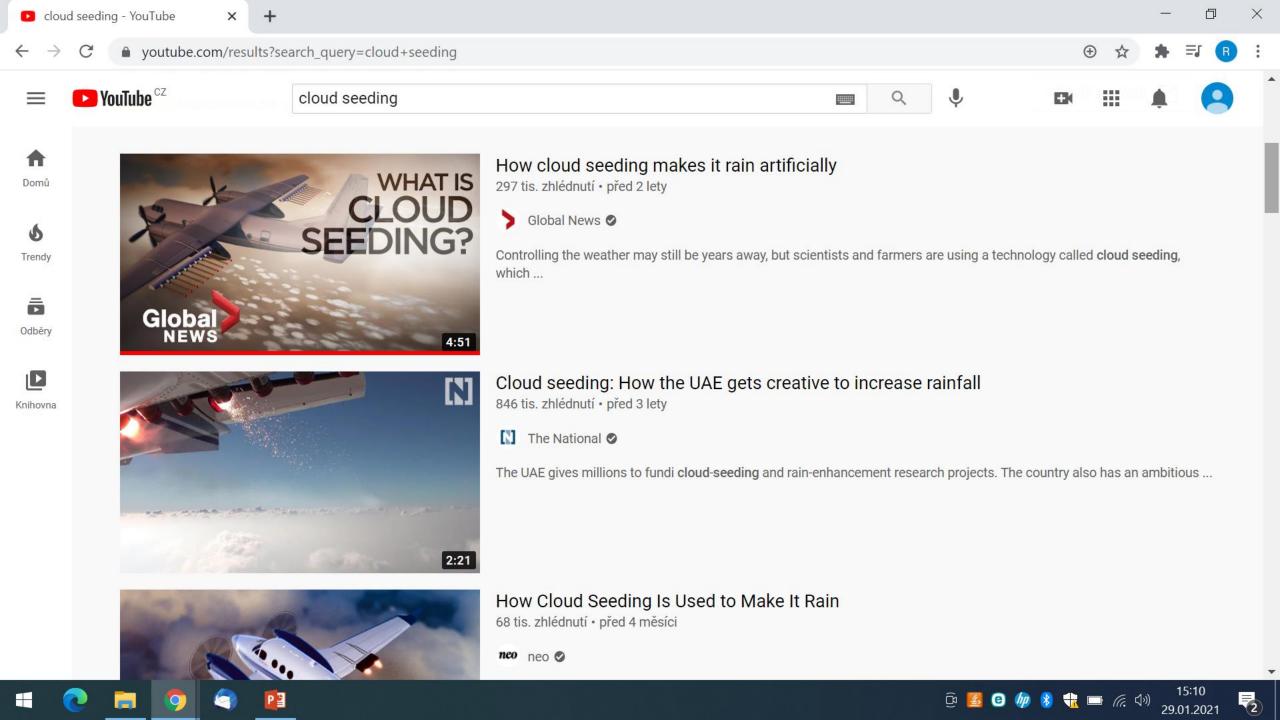






MODIFIKACE POČASÍ je Big Business



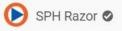






The problem with cloud seeding

136 tis. zhlédnutí • před 7 lety



Cloud seeding has been mooted as a possible solution to our haze woes. But is it? What does cloud seeding actually entail, and ...



Top 5 Cloud Generating Machines

234 tis. zhlédnutí • před 2 lety



You may not have known that cloud forming machines even existed! Today's video is on the top five cloud generating machines.



Cloud Seeders Make It Rain

198 tis. zhlédnutí • před 8 lety



ABC News ②



Trendy

Odběry

Knihovna

















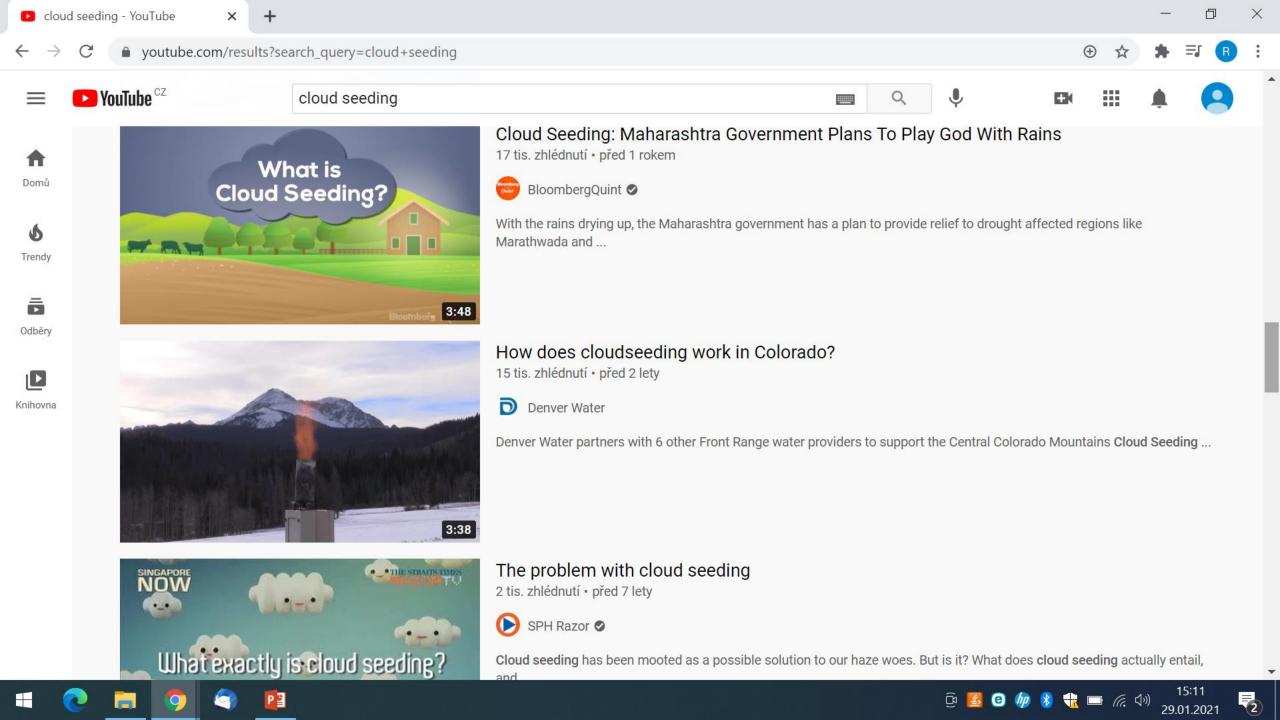




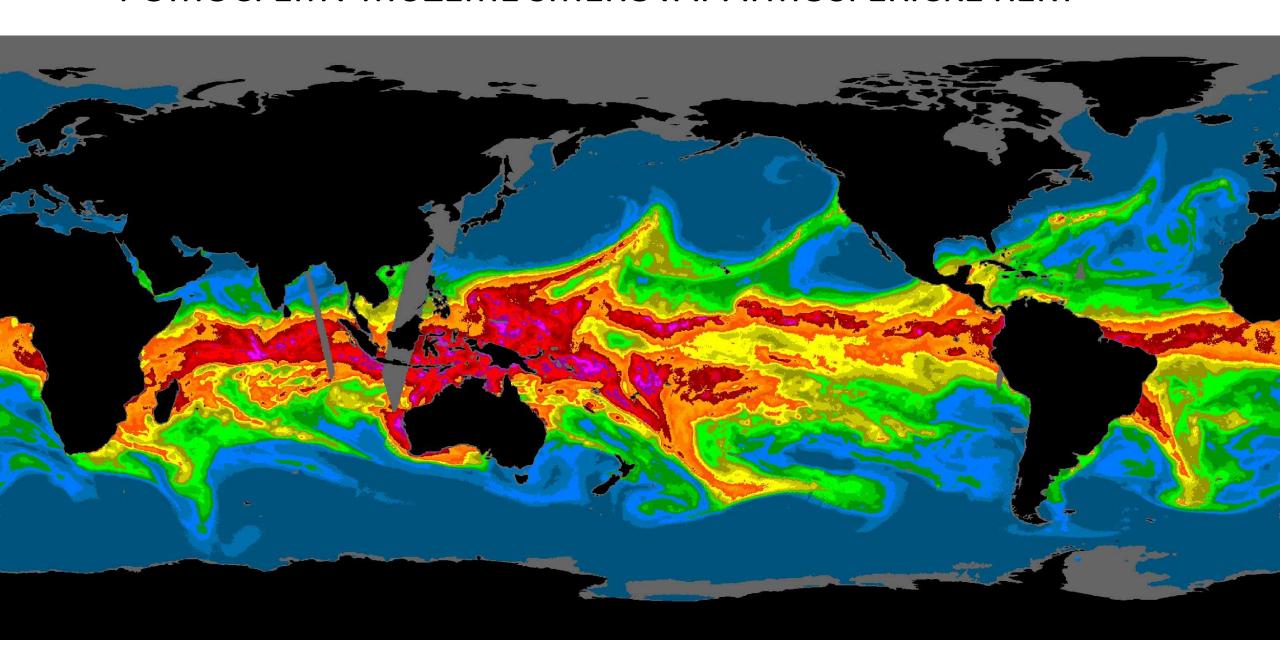








POMOCÍ EMV MŮŽEME SMĚROVAT ATMOSFÉRICKÉ ŘEKY







Weather Moderation

Powerful forces drive earth's weather. It is an equally powerful 'mechanism of engagement' that is required to tame it. This brief contextual overview provides a backdrop to Weather Moderation, a technology being developed to assist mankind in the ongoing struggle with this natural adversary.

The motion of the earth and the effect of radiation from the sun on the atmosphere, largely via convection from earth's surface land and sea masses, are the driving forces responsible for producing weather patterns. Uneven distribution of heat, due to surface topography and ocean currents, drive differences in air pressure and gives rise to a complex daily surge in evaporation, adding water vapour into the atmosphere.

The atmosphere can be described as a binary mix of two gases, dry air and water vapour. The percentage of water vapour in the air varies from about 0.01% at the top of the stratosphere to as much as 4.24% at low altitudes. As the earth's surface temperature rises and reaches 25 deg C and above and when a moisture source exists, the proportion of water vapour in the air increases and subsequently its buoyancy increases. This gives rise to moisture rich, upward flowing air currents. In summary, heat creates wind and gives rise to water vapour which is transported by this wind. Sometimes wind action will shape "Atmospheric Rivers", which are better described as relatively narrow corridors of concentrated moisture in the atmosphere, typically several thousand kilometres long yet only a few hundred kilometres wide. They are responsible for the majority of the horizontal transports of water vapour outside of the tropics. These corridors, shaped by wind action, are also moved by wind action over long distances.

In the early 1960s, MIT mathematician and meteorologist Edward Lorenz realised that small differences in a dynamic system such as the atmosphere, or a model of the atmosphere - could trigger vast and often unexpected results.





















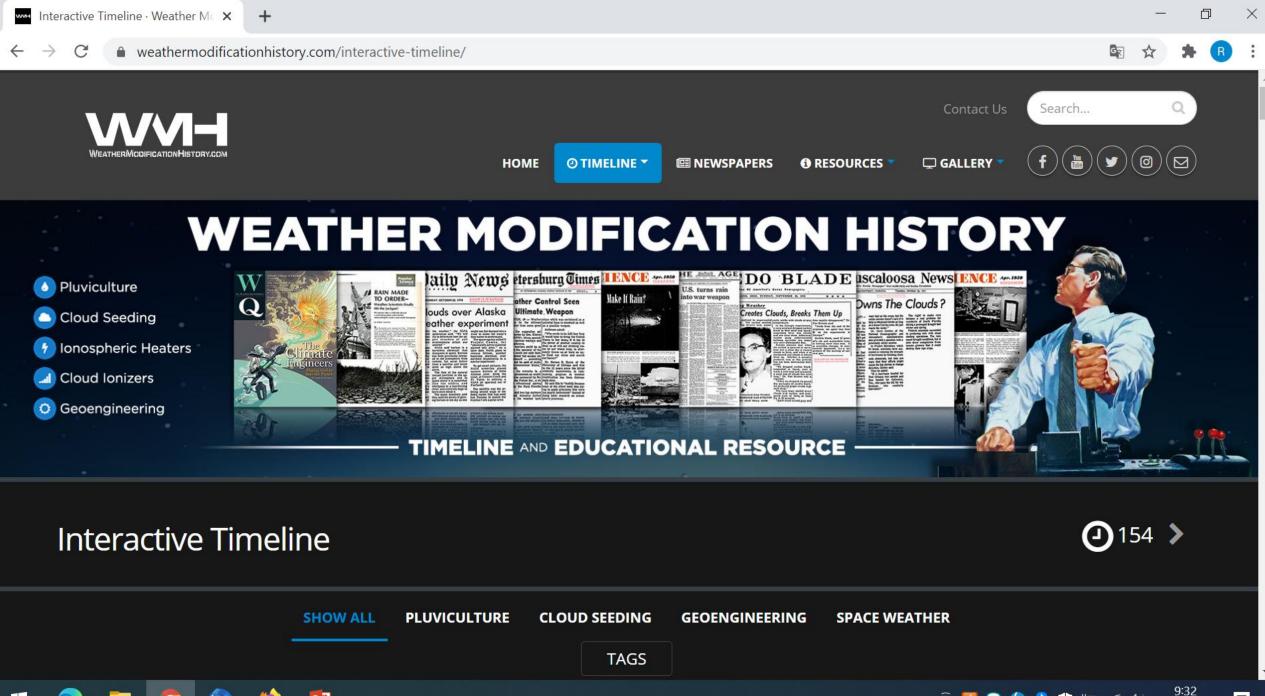


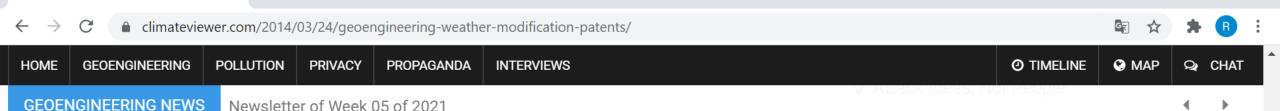






ROZSÁHLÁ A BOHATÁ HISTORIE OVLIVŇOVÁNÍ POČASÍ, PATENTY, MATERIÁLY





Weather Modification Patents

- 1891 0462795 method of producing rain-fall
- 1914 1103490 rain maker (balloon images)

Geoengineering and Weather Mc X

- 1917 1225521 protection from poisonous gas in warfare
- 1920 1338343 process and apparatus for the production of intense artificial clouds, fogs, or mists
- 1924 1512783 composition for dispelling fogs
- 1927 1619183 process of producing smoke clouds from moving aircraft
- 1928 1665267 process of producting artificial fogs
- 1932 1892132 atomizing attachment for airplane engine exhausts
- 1933 1928963 electrical system and method
- 1934 1957075 airplane spray equipment
- 1936 2045865 skywriting apparatus
- 1936 2052626 method of dispelling fog (mit)
- 1937 2068987 process of dissipating fog
- 1939 2160900 method for vapor clearing
- 1941 2232728 method and composition for dispelling vapors
- 1941 2257360 desensitized pentaerythritol tetranitrate

8152091 - Production or distribution of radiative forcing agents







"One of the saddest lessons of history is this: If we've been bamboozled long enough, we tend to reject any evidence of the bamboozle. We're no longer interested in finding out the truth. The bamboozle has captured us. It's simply too painful to acknowledge, even to ourselves, that we've been taken. Once you give a charlatan power over, you almost never get it back."

- Carl Sagan

Read Fake News, Propaganda, and Acvitism

Weather Modification History









































ZZOZTZO INCCIOG GIA COMPOSICION FOI GISPCINING vapors

- 1941 2257360 desensitized pentaerythritol tetranitrate explosive
- 1946 2395827 airplane spray unit (us. dept. of agriculture)
- 1946 2409201 smoke-producing mixture
- 1949 2476171 smoke screen generator
- 1949 2480967 aerial discharge device
- 1950 2527230 method of crystal formation and precipitation
- 1951 2550324 process for controlling weather
- 1951 2570867 method of crystal formation and precipitation (general electric)
- 1952 2582678 material disseminating apparatus for airplanes
- 1952 2591988 production of tio2 pigments (dupont)
- 1952 2614083 metal chloride screening smoke mixture
- 1953 2633455 smoke generator
- 1954 2688069 steam generator
- 1955 2721495 method and apparatus for detecting minute crystal forming particles suspended in a gaseous atmosphere (general electric)

climateviewer.com/2014/03/24/geoengineering-weather-modification-patents/

- 1956 2730402 controllable dispersal device
- 1957 2801322 decomposition chamber for monopropellant fuel
- 1958 2835530 process for the condensation of atmospheric humidity and dissolution of fog
- 1959 2881335 generation of electrical fields (haarp for re-charging clouds!)
- 1959 2903188 control of tropical cyclone formation
- 1959 2908442 method for dispersing natural atmospheric fogs and clouds
- 1960 2962450 fog dispelling composition (see references)
- 1960 2963975 cloud seeding carbon dioxide bullet
- 1961 2986360 aerial insecticide dusting device
- 1962 3044911 propellant system
- 1962 3056556 method of artificially influencing the weather
- 1964 3120459 composite incendiary powder containing metal coated oxidizing salts

weather Modification History

















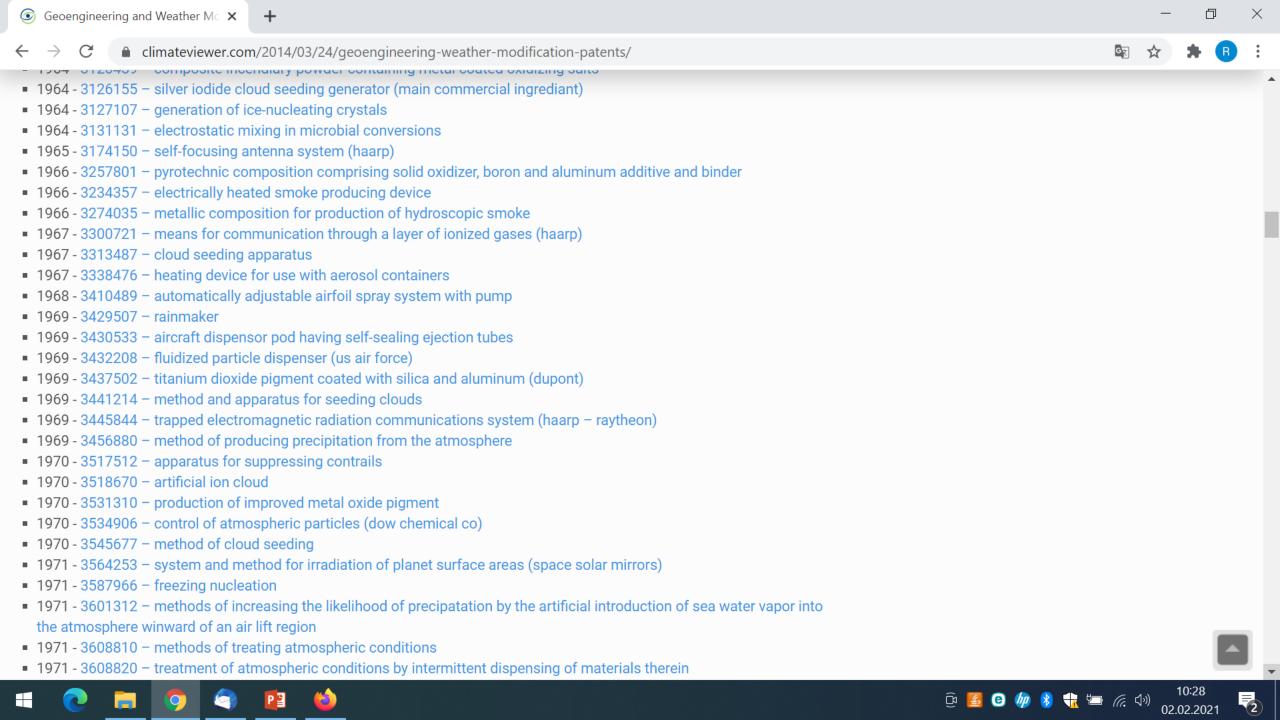


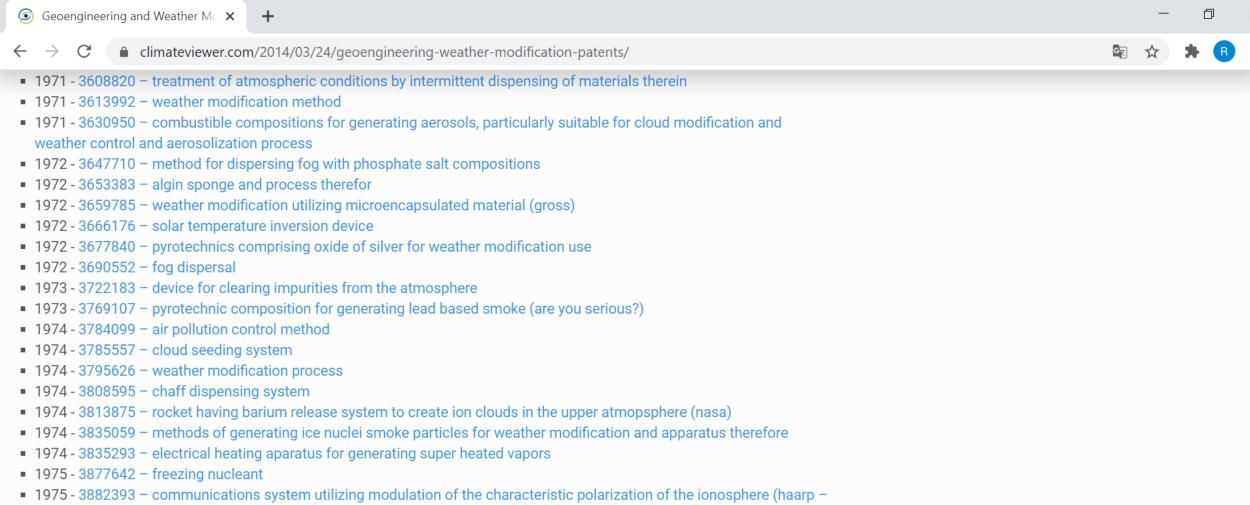












1975 - 3882393 - communications system utilizing modulation of the characteristic polarization of the ionosphere (haarp - us navy)

• 1975 - 3896993 – process for local modification of fog and clouds for triggering their precipitation and for hindering the development of hail producing clouds

■ 1975 - 3899144 - powder contrail generation

■ 1975 - 3902934 - gas generating compositions

1976 - 3940059 - method of fog dispersion

■ 1976 - 3940060 - vortex ring generator

■ 1976 - 3990987 - smoke generator

= 1076 2002620 countermosques quetem for locar radiation















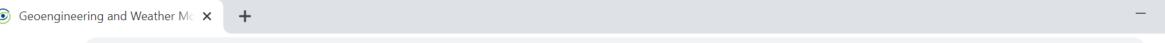


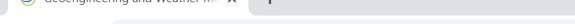


















- 1976 3990987 smoke generator
- 1976 3992628 countermeasure system for laser radiation
- 1976 3994437 broadcast dissemination of trace quantities of biologically active chemicals
- 1977 re29142 combustible compositions for generating aerosols, particularly suitable for cloud modification and weather control and aerosolization process
- 1977 4035726 method of controlling and/or improving high-latitude and other communications or radio wave surveillance systems by partial control of radio wave et al (haarp - cornell univ.)

- 1977 4042196 method and apparatus for triggering a substantial change in earth characteristics and measuring earth changes
- 1978 4096005 pyrotechnic cloud seeding composition
- 1978 4111911 method of hardening liquid resols
- 1978 4129252 method and apparatus for production of seeding materials
- 1979 4141274 weather modification automatic cartridge dispenser
- 1979 4167008 fluid bed chaff dispenser
- 1981 4269637 high-performance mhd solid gas generator
- 1982 4347284 white cover sheet material capable of reflecting ultraviolet rays
- 1982 4362271 procedure for the artificial modification of atmospheric precipitation as well as compounds with a dimethyl sulfoxide base for use in carrying out said procedure
- 1983 4402480 atmosphere modification satellite (space)
- 1983 4412654 laminar microjet atomizer and method of aerial spraying of liquids
- 1983 4415265 method and apparatus for aerosol particle absorption spectroscopy
- 1983 4373391 relative humidity sensitive material
- 1984 4470544 method of and means for weather modification
- 1984 4475927 bipolar fog abatement system
- 1986 4600147 liquid propane generator for cloud seeding apparatus
- 1987 4633714 aerosol particle charge and size analyzer
- 1987 4643355 method and apparatus for modification of climatic conditions
- 1987 4653690 method of producing cumulus clouds
- 1987 4684063 particulates generation and removal





























- (haarp raythen)
- 1987 4704942 charged aerosol (anti-airborne biological warfare agent)
- 1987 4712155 method and apparatus for creating an artificial electron cyclotron heating region of plasma (haarp raytheon)
- 1988 4744919 method of dispersing particulate aerosol tracer
- 1988 4766725 method of suppressing formation of contrails and solution therefor
- 1989 4829838 method and apparatus for the measurement of the size of particles entrained in a gas
- 1989 4836086 apparatus and method for the mixing and diffusion of warm and cold air for dissolving fog
- 1989 4873928 nuclear-sized explosions without radiation (haarp raytheon)
- 1990 4948257 laser optical measuring device and method for stabilizing fringe pattern spacing
- 1990 4948050 liquid atomizing apparatus for aerial spraying
- 1990 4959559 (united states) electromagnetic or other directed energy pulse launcher
- 1991 4999637 creation of artificial ionization clouds above the earth (haarp raytheon)
- 1991 5003186 stratospheric welsbach seeding for reduction of global warming
- 1991 5005355 method of suppressing formation of contrails and solution therefor
- 1991 5038664 method for producing a shell of relativistic particles at an altitude above the earths surface (haarp raytheon)
- 1991 5041760 method and apparatus for generating and utilizing a compound plasma configuration
- 1991 5041834 artificial ionospheric mirror composed of a plasma layer which can be tilted (haarp raytheon)
- 1991 5056357 acoustic method for measuring properties of a mobile medium
- 1991 5059909 determination of particle size and electrical charge
- 1992 5104069 apparatus and method for ejecting matter from an aircraft
- 1992 5110502 method of suppressing formation of contrails and solution therefor
- 1992 5148173 millimeter wave screening cloud and method
- 1992 5156802 inspection of fuel particles with acoustics
- 1992 5174498 cloud seeding
- 1993 5245290 device for determining the size and charge of colloidal particles by measuring electroacoustic effect
- 1994 5286979 process for absorbing ultraviolet radiation using dispersed melanin (wow!)
- 1994 5296910 method and apparatus for particle analysis
- 1004 5227222 displacement information detecting apparatus











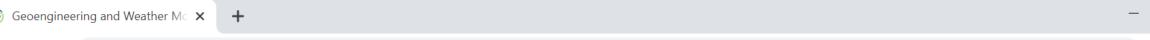












- - 1994 5296910 method and apparatus for particle analysis

1994 - 5327222 - displacement information detecting apparatus

- 1994 5357865 method of cloud seeding
- 1994 5360162 method and composition for precipitation of atmospheric water
- 1995 5383024 optical wet steam monitor
- 1995 5425413 method to hinder the formation and to break-up overhead atmospheric inversions, enhance ground level air circulation and improve urban air quality
- 1995 5434667 characterization of particles by modulated dynamic light scattering
- 1995 5441200 tropical cyclone disruption (hurricanes!)
- 1996 5486900 measuring device for amount of charge of toner and image forming apparatus having the measuring device
- 1996 5556029 method of hydrometeor dissipation (clouds)
- 1997 5628455 method and apparatus for modification of supercooled fog
- 1997 5631414 method and device for remote diagnostics of ocean-atmosphere system state
- 1997 5639441 methods for fine particle formation
- 1998 5762298 use of artificial satellites in earth orbits adaptively to modify the effect that solar radiation would otherwise have on earth's weather (space)
- 1999 5912396 system and method for remediation of selected atmospheric conditions (solar powered blimp to ionize clouds)
- 1999 5922976 method of measuring aerosol particles using automated mobility-classified aerosol detector
- 1999 5949001 method for aerodynamic particle size analysis
- 1999 5984239 weather modification by artificial satellites (space)
- 2000 6025402 chemical composition for effectuating a reduction of visibility obscuration, and a detoxifixation of fumes and chemical fogs in spaces of fire origin
- 2000 6030506 preparation of independently generated highly reactive chemical species
- 2000 6034073 solvent detergent emulsions having antiviral activity
- 2000 6045089 solar-powered airplane
- 2000 6056203 method and apparatus for modifying supercooled clouds
- 2000 6110590 synthetically spun silk nanofibers and a process for making the same







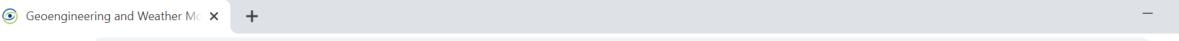












- climateviewer.com/2014/03/24/geoengineering-weather-modification-patents/
- OUO-TO/O SOLVENIE DESCRIPTION OF THE THE BUILDING THE PROPERTY OF THE PROPERTY 2000 - 6045089 - solar-powered airplane
- 2000 6056203 method and apparatus for modifying supercooled clouds
- 2000 6110590 synthetically spun silk nanofibers and a process for making the same
- 2001 6263744 automated mobility-classified-aerosol detector
- 2001 6281972 method and apparatus for measuring particle-size distribution
- 2001 6315213 method of modifying the weather
- 2002 6382526 process and apparatus for the production of nanofibers
- 2002 6408704 aerodynamic particle size analysis method and apparatus
- 2002 6412416 propellant-based aerosol generation devices and method (us army)
- 2003 6520425 process and apparatus for the production of nanofibers
- 2003 6539812 system for measuring the flow-rate of a gas by means of ultrasound
- 2003 6553849 electrodynamic particle size analyzer
- 2003 6569393 method and device for cleaning the atmosphere
- 2011 7965488 methods of removing aerosols from the atmosphere (ionizing antennas)

Geoengineering Patents

- 1991 Stratospheric Welsbach seeding for reduction of global warming
- 1999 Process for sequestering into the ocean the atmospheric greenhouse gas carbon dioxide by means of supplementing the ocean with ammonia or salts thereof
- 1999 6200530 Water-bouyant particulate materials containing micronutrients for phytoplankton
- 2000 WO/2000/010691A1 METHOD AND APPARATUS FOR EXTRACTING AND SEQUESTERING CARBON DIOXIDE
- 2001 Method of sequestering carbon dioxide with spiral fertilization
- 2001 US20010022952 METHOD AND APPARATUS FOR EXTRACTING AND SEQUESTERING CARBON DIOXIDE
- 2009 US20090177569 WATER ALTERATION STRUCTURE RISK MANAGEMENT OR ECOLOGICAL ALTERATION MANAGEMENT SYSTEMS AND METHODS



















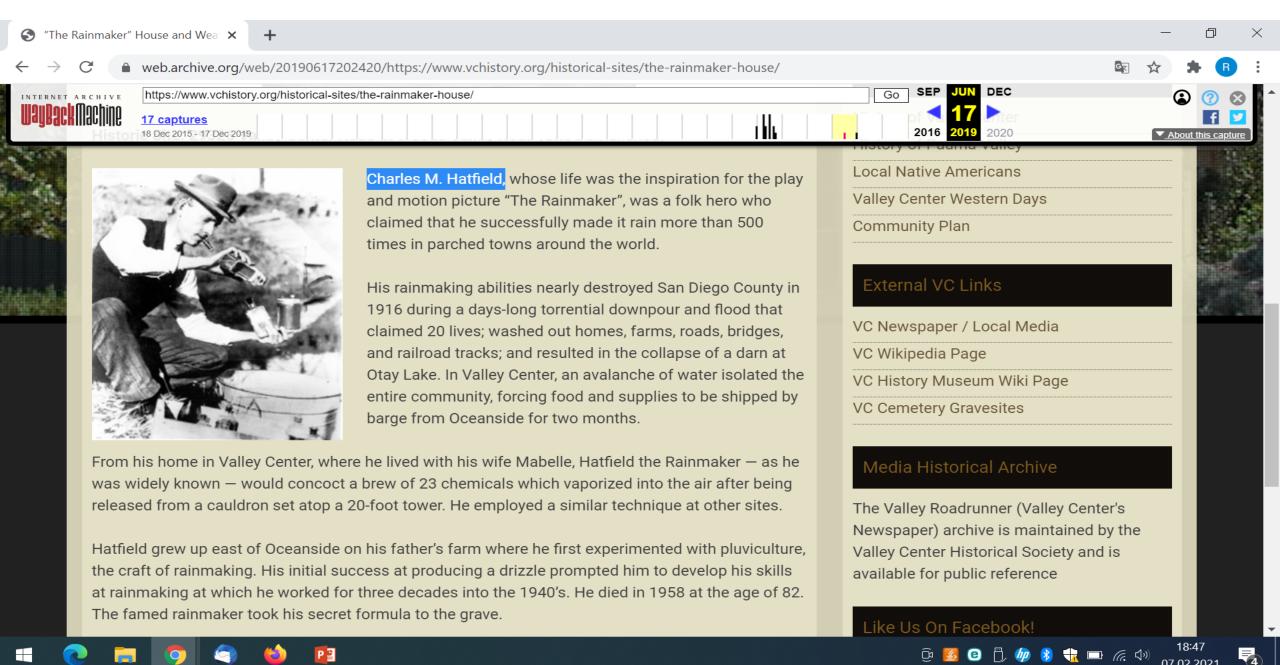








Americký podnikatel prý ve 1916 zapříčinil v San Diegu obrovské povodně



Možné přesměrování hurikánu prý zapříčinilo katastrofu ve státě Georgia

13. října, 1947



PROJECT CIRRUS

The US Army, Navy, Weather Bureau, and General Electric scientists seed the first tropical storm ever on October 13, 1947 with 180 pounds of dry ice dropped by aircraft.

The Cape Sable hurricane formed,

abruptly changed color and direction (120 degrees), and slammed into Savannah Georgia causing 1 death and \$3.2 million in damages.

CLIMATEVIEWER.COM

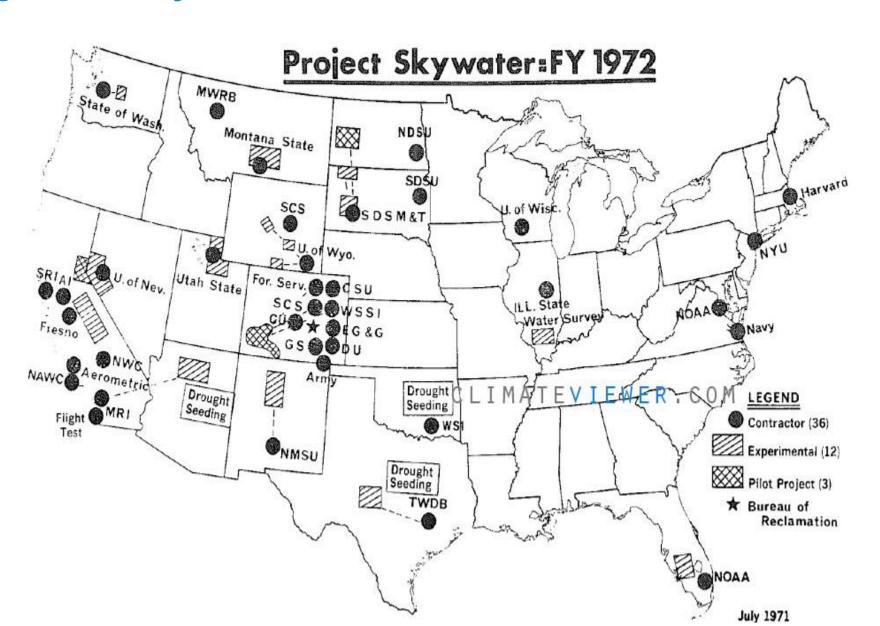
Project Skyfire - 1960-1967

Osévání mraků má zabránit požárům



Project Skywater 1961-1988

Zvýšit zásoby vody

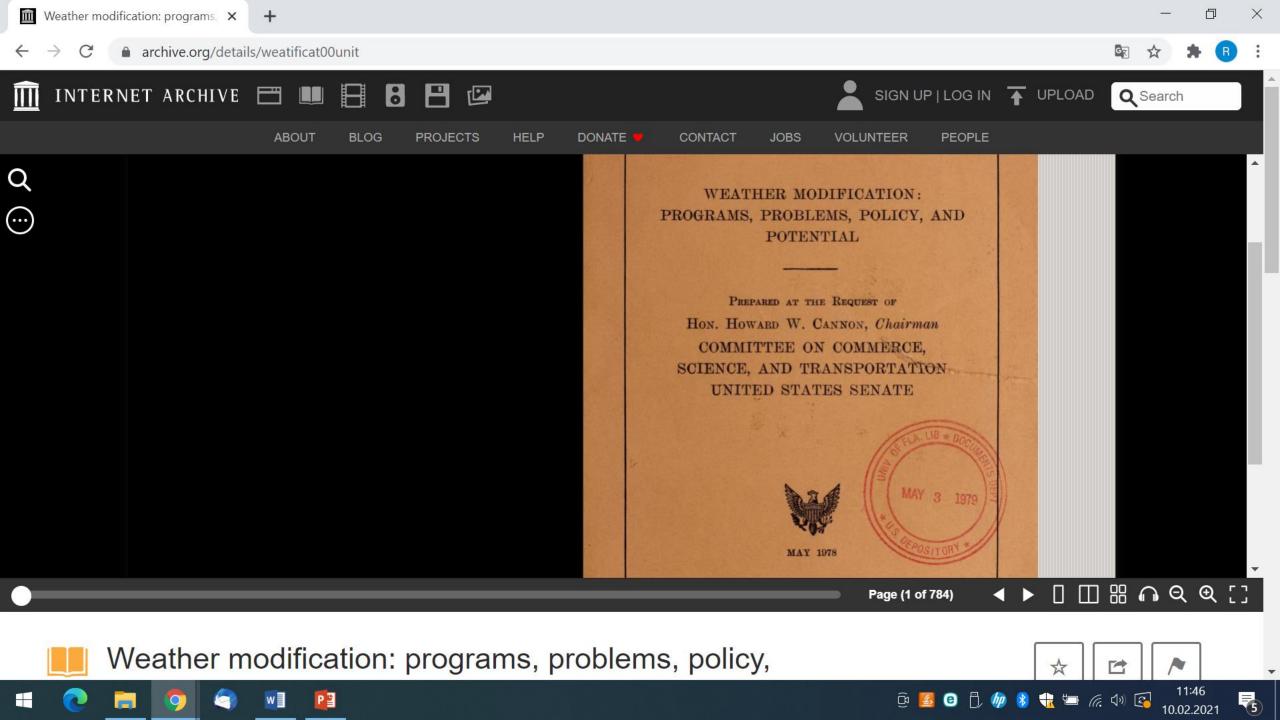


Project Storm Fury (běsnění bouře)

1962 - 1983

Modifikovat hurikány, cyklony







Market Co.

SPACECAST 2020

This document has been redacted for release according to DoD 5400.7-R, DoD Freedom of Information Act, and Executive Order 13526, Classified National Security Information, Section 1.4, para (a), as indicated by "REDACTED" inside blue/gray boxes.



RETURN TO HO AFHRA MAXWELL AFB AL 36112

Volume II

Prepared by the Students and Faculty of

AIR UNIVERSITY

Air University
Air Education and Training Command
United States Air Force
Maxwell Air Force Base, Alabama 36112-6428

June 1994

REDACTED BY: (D)(6)

GS-09, AWC/MSS, 4 May 2016)

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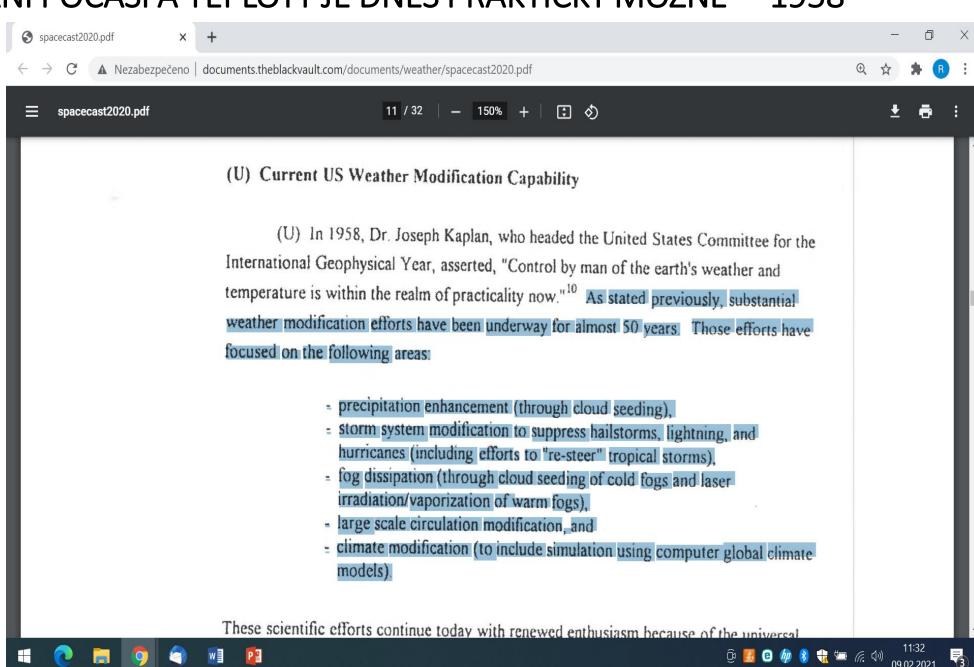
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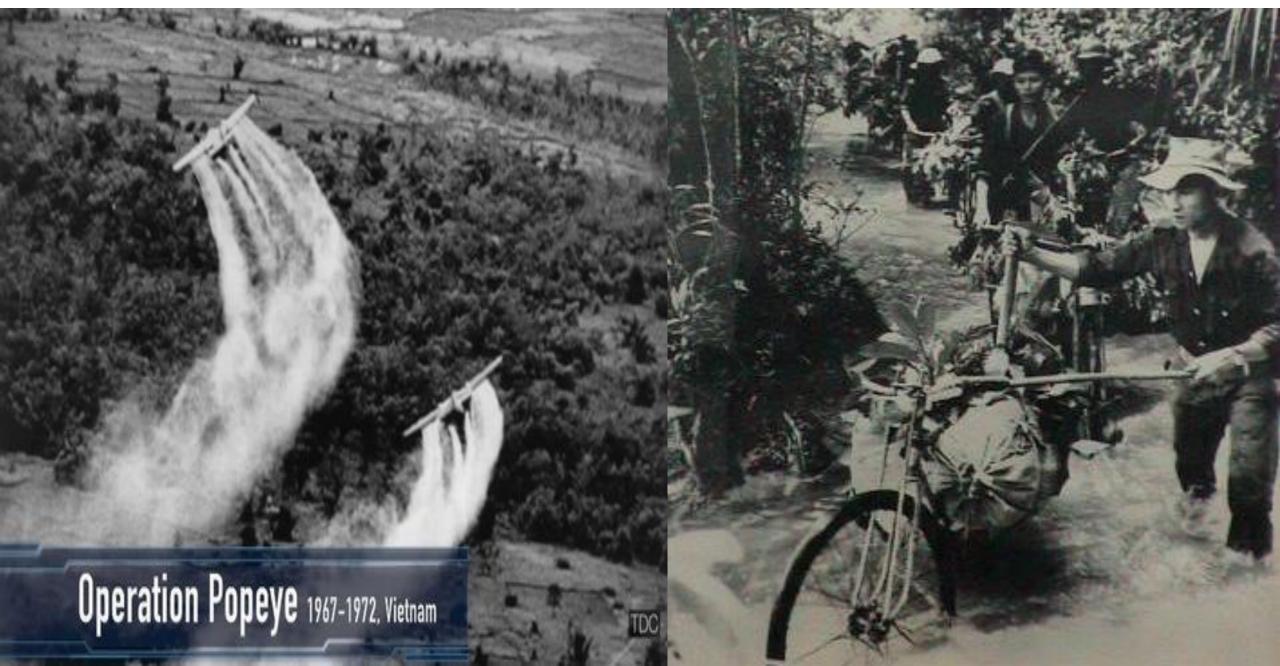
"OVLÁDÁNÍ POČASÍ A TEPLOTY JE DNES PRAKTICKY MOŽNÉ" - 1958

-zvýšení srážek; -ovlivňování frontálních systémů (potlačit krupobití, blesky a hurikány, *možnost* znova zaměřit tropickou bouři); -rozptýlení mlhy (lasery); -ovlivňování rozsáhlé cirkulace a -modifikace klimatu (využití počítačových modelů)



OVLIVŇOVÁNÍ POČASÍ PRO VÁLEČNÉ ÚČELY

OVLIVŇOVÁNÍ POČASÍ PRO VÁLEČNÉ ÚČELY









weathermodificationhistory.com/operation-popeye-motorpool-intermediary-compatriot-weather-warfare-vietnam/

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FOLLOW US ON FACEBOOK WEATHER MODIFICATION HISTORY

First published 1831

The Sydney Morning Herald. Friday, April 14, 1972

Weather war outcry

CONGRESSMEN QUERY AMERICAN RAINMAKING PROJECTS

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From PETE REINSTEIN
In Washington
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even ayeard to an unclassified
Postages peoplet known as
"Nile Blan."
Under the project, a large
and very powerful computer
called the Illiae IV simulates

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ARMS.
All the present rate of tech-nological progress, geophysical workers was a test possibility, sald Gordeon 2. F. Macdonald, who first openity discussed the subject in a collection, "Unless Force Cornes," published in 1967.

CLIMATE VER . COM

20 April 1972 Volume 54 Number 792

The weather as a weapon of war

Despite the emphasis on arms limitations

Most of the references stem from an article in Dan Greenberg's Science and Government Report (vol 1, no 22). There Greenberg reported that there was a struggle led by Senator Pell to put a damper on the Defense Department's interest in "geophysical warfare". According to Greenberg, despite attempts to maintain total official silence, meteorologists and geophysicists were aware of military exploration of the possibilities of rain-making, rumoured to be already in use on the Ho Chi Minh Trail. Other applications are believed to include 'earthquakes, tidal waves and ecologiphysical warfare is the identification of the environmental instabilities to which the addition of a small amount of energy would release vastly greater amounts of energy. Among the techniques on which he speculates is the creation of a temporary "hole" in ozone layer over a target area, releasing the full force of solar ultra-violet radiation which would be fatal to all life. (This might be achievable by either physical or chemical action). Earthquakes might be triggered if the strain pattern in the crust could be accurately determined, by the timed release of energy through small explosion at a distance. Phased explosions might even be used to create conditions for a "guided tidal wave".

Although the State Department and the Arms Control and Disarmament Agency are less than enthusiastic over such research, the Defense Department is having its way at least to the extent of a budget of \$3 million for 1972. The need was defended before the Senate Appropriations Committee by Stephen Lukasik, director of Department of Defense's Advanced Research Projects

FOLLOW US ON FACEBOOK WEATHER MODIFICATION HISTORY

in the SALT talks and the biological warfare treaty signed last week, the armourers continue to thrive. European newspapers have recently included references to Nile Blue, the code name for what appears to be a US project for research into weather modification for military purposes.

cally disruptive temperature alterations".

Greenberg refers to the contribution of Gordon McDonald, a former member of the President's science advisory committee and now serving on the Council on Environmental Quality, to the book, Unless Peace Comes edited by Nigel Calder (Penguin Press, London, 1968).

As MacDonald says, the key to geo-

Wednesday, July 5, 1972 250 Spencer St., Melbourne 60 0421 (Classified 60 0611)



TORNADO CONTROL

UAV DRONE

WEATHER WARFARE

46. No. 13,167

TUESDAY, JULY 4, 1972

CLOUD SEEDING OVER VIETNAM























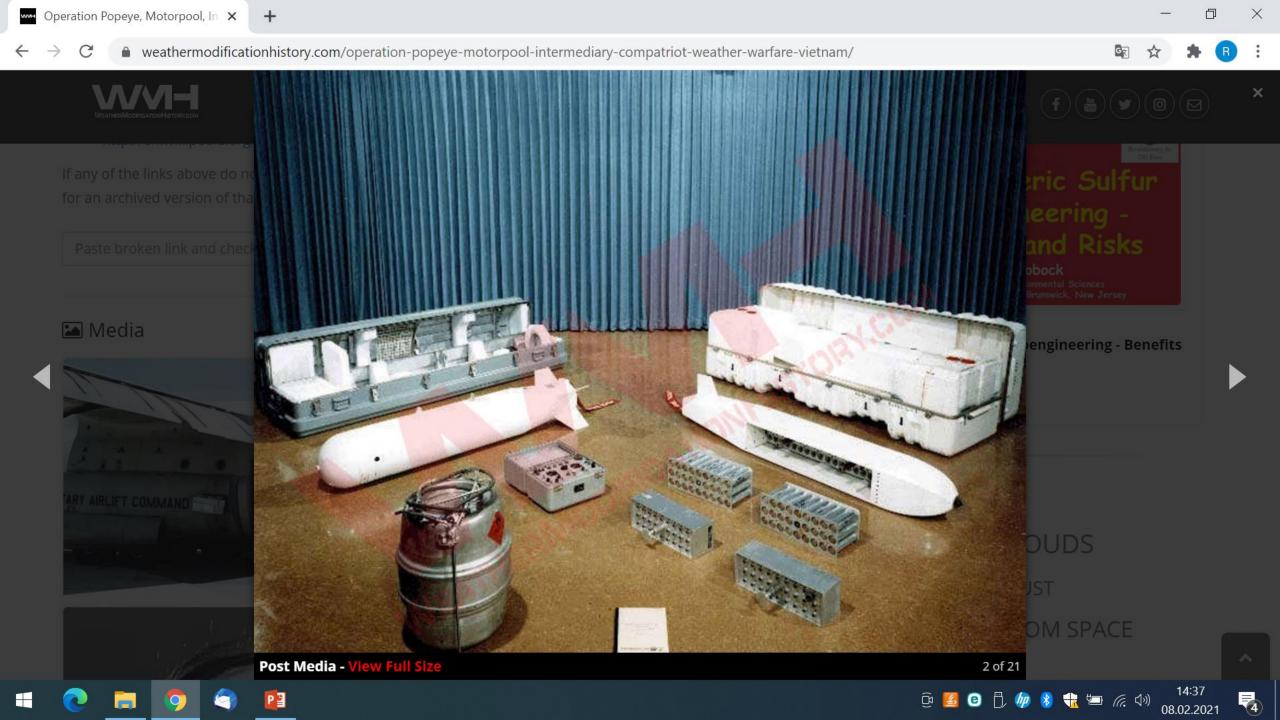


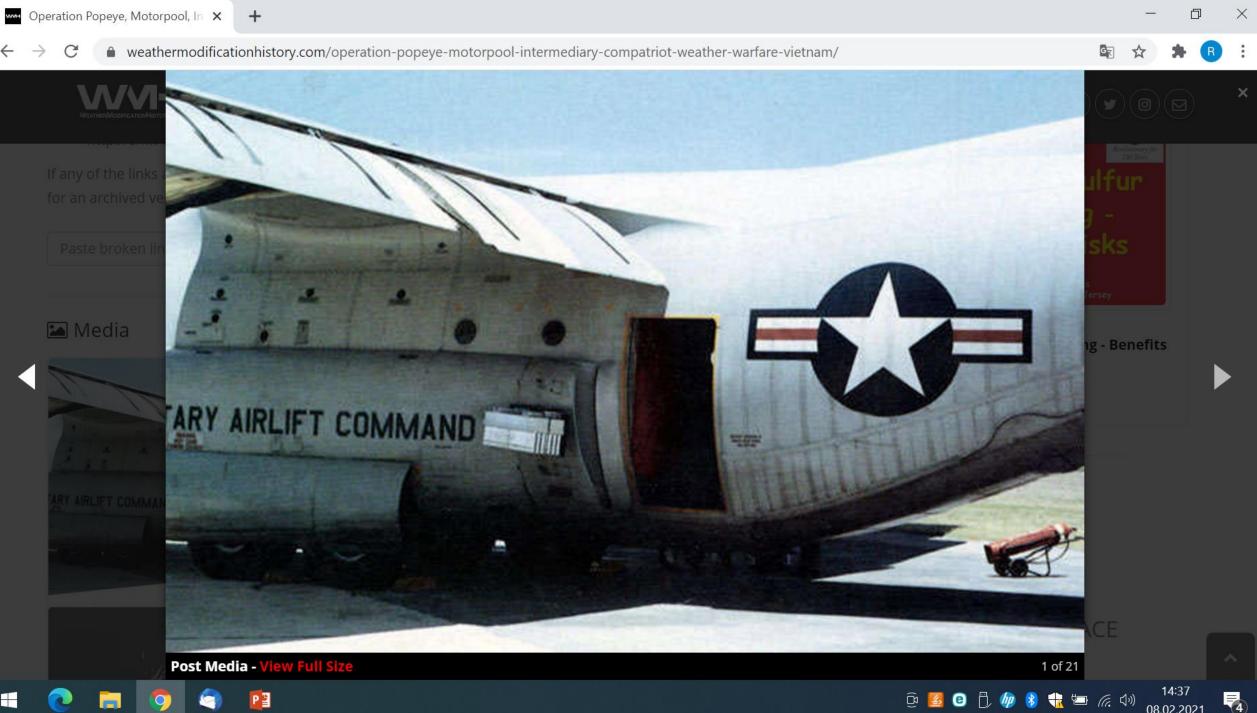














OPERACE NILE BLUE NA KUBĚ

















② TIMELINE

MEWSPAPERS

• RESOURCES

☐ GALLERY









CIA Are The Veathermen

-- Betty Segal

Did the CIA order weather modification to ruin the Cuban sugar crop in 1969 and 1970, or didn't it?

Lowell Ponte, former researcher for International Research and Technology Corporation, a Pentagon "think tank," says the CIA and Pentagon ordered cloudseeding off the shores of Cuba, to "milk" rain clouds, at a time when Castro's fortunes seemingly depended on a successful harvest of sugar cane.

The CIA has categorically denied it practiced cloud seeding anywhere except in Vietnam during that time period.

Ponte says the Cuban experiment was part of "Project Nile Blue," carried on officially starting in 1970 by the Pentagon's

Advanced Research Projects Agency (ARPA). Later exposure of the project by scientists opposed to the war revealed that weather experimentation there had begun as early as 1966. A computer model for "Nile Blue" was developed by the main computer installation, known as ILLIAC 4, located at Moffett Field in Mountain View.

Ponte says the Cuban cloudseeding effort did produce erratic weather which cut down the sugar harvest those years, but that on the whole weather science is too "primitive" and unpredictable to produce certain re-

sults. He adds that "Nile Blue" was really aimed at "destabilizing" weather in the Soviet Union, China and Cuba, to ruin harvests and create political unrest.

FOLLOW US ON FACEBOOK

November 17-30 1976

UC San Diego Volume 2 Number 2

with Cuba's Woather

Another CIA plot: Cuba crops

LOS ANGELES - The United States sed cloud seeding to dry up the cuban sugar crop in 1969 and 1970, Lowell Ponte, a former Pentagon think tank researcher, said

It was part of a secret Penta-gon project aimed at using nature weapons to destabilize weather in the Soviet Union, China and other Communist countries, and to enhance the power of U.S. food sales,

Ponte, a former specialist for the International Research and Technology Corp., said the CIA and the Pentagon seeded clouds in wind currents that carry rains to Cuba:

"Between 1966 and 1972 the CIA and later the Pentagon were using cloud-seeding to make enemy trails muddy in Southeast Asia. Ponte said in an interview for National Public Radio.

was to cause less rain, not more. It was supposed to squeeze rain out of clouds before they reached the island. You might say we tried to embargo rainclouda."

The experimental seeding was stepped up in 1970, Ponte said, after Cuban Premier Fidel Castro staked the honor of his Communist government on the success of year's sugar crop.

"Castro set a harvest goal of 10 million tons of sugar," Ponte said.
"The CIA decided, after Castro's promises, that failure would demoraltre his people and make Cuban Communism appear a failure."

The cloud seeding brought er-ratic weather in Cuba and the sugar harvest fell short of its goal. Castro offered to resign, but remained in office. Ponte said.

"Weather science is too primi-tive to say that cloud seeding hurt

could have. The point is our govern-ment secretly attempted to tamper with the weather in another nation, with which we were not at war, in an effort to cause economic and

Ponte, author of "The Cooling." a book dealing with climatic change and manipulation of weather for political reasons, said the cloud seeding near Cubs was originally to provide information for a Pentagon project called "Nile Blue."

The secret project, he said, has studied ways to melt polar icecaps, direct hurricanes and tornadoes as weapons and to "destabilize weath r in the Soviet Union, China and Cuba" to ruin harvests.

The Pentagon and CIA study was aimed at increasing America's
"food weapon" — the political use
of food sales — in much the same

Saturday, October 30, 1976 Palm Springs, California

Canadian's Suit Continues

WASHINGTON (UPI) - A federal judge must decide whether the CIA and the Pentagon infringed on a Canadian meteorolgist's rainmaking process during the Vietnam War.

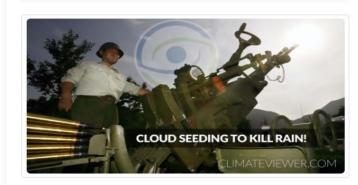
Bernard A. Power, a professional meteorologist and president of Weather Engineer Corp. of Canada. Ltd., sued the U.S. four years ago and the trial began Sept. 22 in the U.S. Court of Claims. Arguments ended Friday.

Judge Joseph V. Colaianni is expected to rule in about 10 days on the first part of the two-section

Russian Geoengineering Solar Radiation **Management Field Experiment**

Fig. 1. Aerosol generators installed (a) on the helicopter and (b) on the car chassis.

@ September 25, 2005



Chinese Weather Modification at the Beijing Olympics

@ March 25, 2008































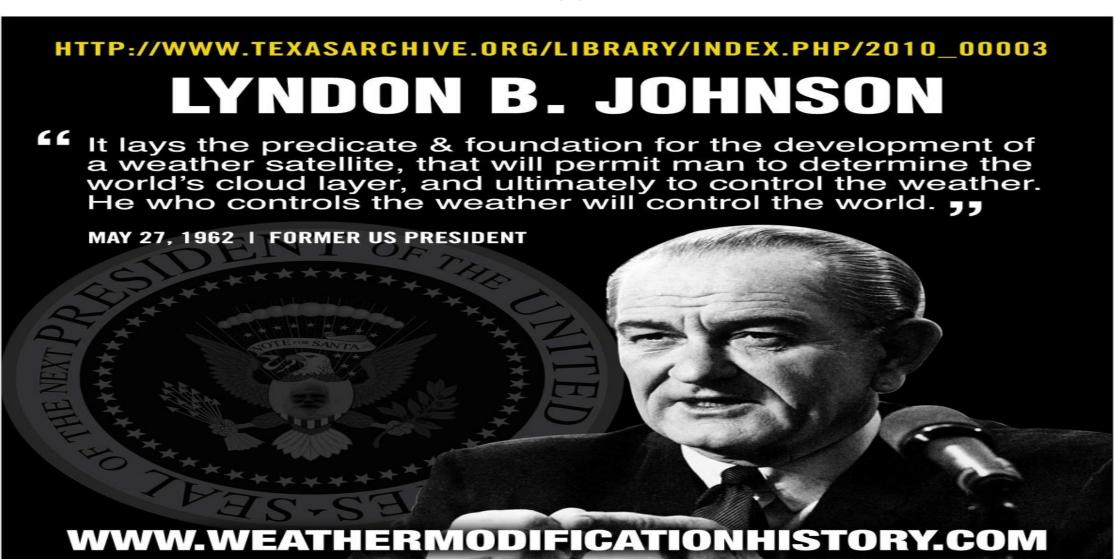






TEN, KDO ŘÍDÍ POČASÍ, MŮŽE OVLÁDNOUT SVĚT

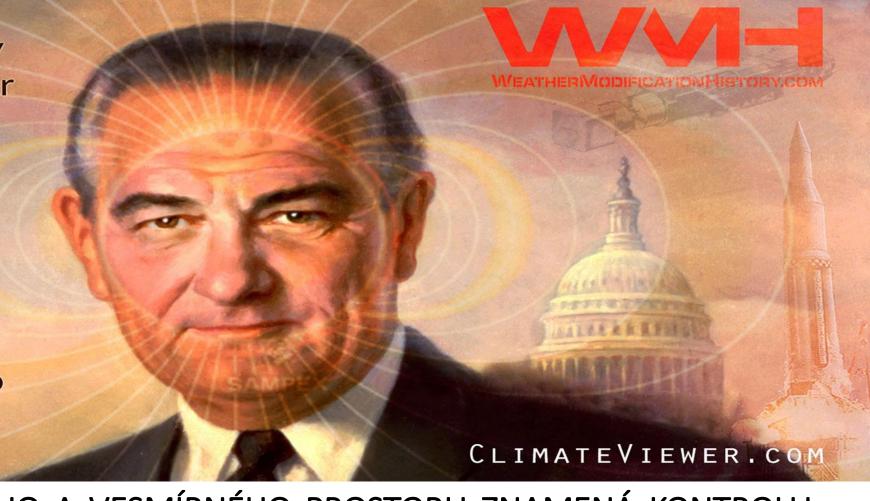
1962



"Control of Space Means Control of the World"

"From space, the masters of infinity would have the power to control the earth's weather, to cause drought and flood, to change the tides and raise the levels of the sea, to divert the gulf stream and change temperate climates to frigid."

VP Lyndon B. Johnson



"OVLÁDNUTÍ VZDUŠNÉHO A VESMÍRNÉHO PROSTORU ZNAMENÁ KONTROLU NAD SVĚTEM – vládci nekonečna by měli moc řídit počasí na zemi, způsobit sucha a povodně, změnit přílivy a proudy, zvýšit hladiny moří, odklonit golfské proudy a změnit mírné podnebí na chladné."

EXPERIMENTY S POPÍLKEM A
SAZEMI UHLÍKU, DOKUMENTACE
O JEHO VYUŽITÍ PŘI
OVLIVŇOVÁNÍ POČASÍ

POPÍLEK PLNÝ TĚŽKÝCH KOVŮ TOLEDO BLADE

123rd Year

TOLEDO. OHIO. TUESDAY. SEPTEMBER 23, 1958



Blue Skies Or Stormy Weather

Navy Scientist Creates Clouds, Breaks Them Up

New Technique May Make Rain

WASHINGTON, Sept. 23 UM-The navy said today it has created clouds and destroyed others by seeding them with ordinary carbon black.

A woman scientist who discovered the new method said experiments over southern Georgia produced a series of clouds at a cost of 18 cents a cloud.

Much experimentation must be done before the value of the new technique can be determined. It could open the way to cheap and reliable means of making rain, or of breaking up storm clouds, or of dissipating

The technique was developed by Dr. Florence W. Van Straten, who livened up a desk job with the chief of naval operations by theorizing along new lines as to how rain is formed. Earlier cloud-seeding methods using more expensive dry

výrobě odpadem." 1958

been confined to super-cooled ently works with clouds at any then rapidly disappeared," Dr. clouds. The carbon method, temperature.

Or. Van Straten said, appar
In the Georgia experiments, "Aside from the cost of the



DR. FLORENCE VAN STRATEN

In the Georgia experiments, a navy airplane dropped carbon black in both solid and liquidsuspension form into clouds and into clear skies Additional studies using radar-tracked balloons currently are under

way over Chesapeake Bay. Results indicate that when the carbon is sprayed or sprinkled into a clear sky it causes clouds to form, and when it is introduced into clouds it clears them up. Whether it actually produces rain in this process has not been determined defi-

"We dropped carbon black, suspended in liquid, over a track a mile long and produced a solid line of clouds one mile long," Dr. Van Straten told a reporter.
"When we dropped 1½-pound

dry packages of carbon black, we produced single clouds with each drop." The navy team seeded seven

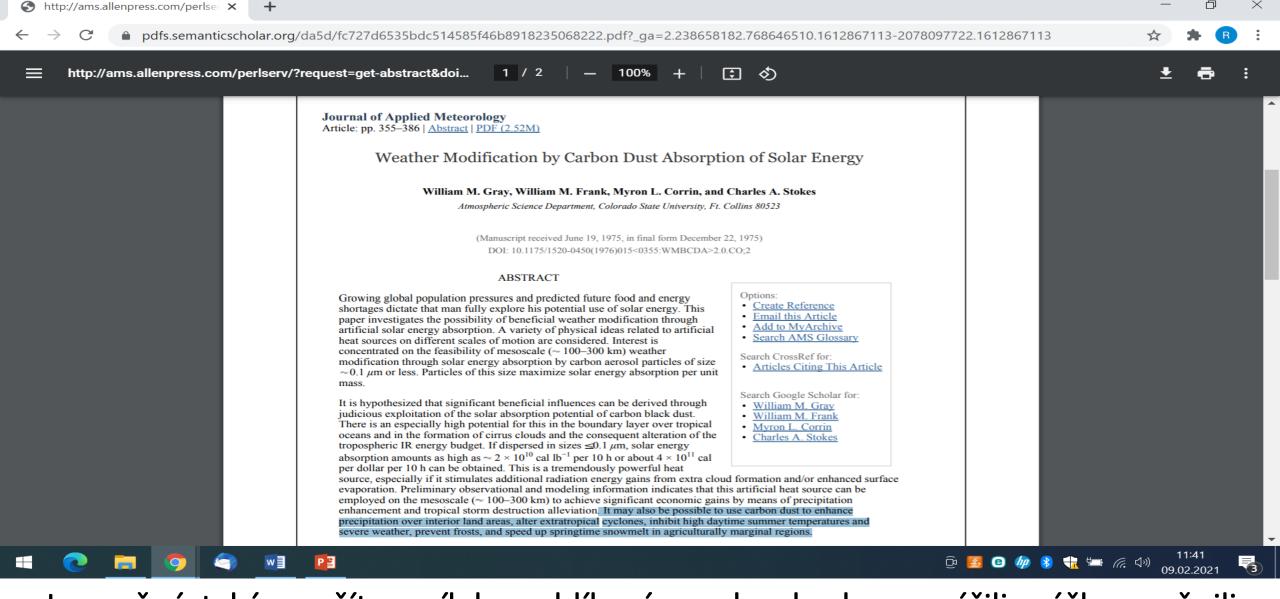
clouds with carbon, and dissipated each of them in from 2½ to 20 minutes.
"Each cloud turned gray and

"Aside from the cost of the airplanes, we spent less than \$5 on the experiments in Georgia."

Carbon black, used in printer's ink and automobile tires, is nothing more than soot. It is available cheaply, in commercial quantities, as a by-product of the burning of natural gas.

FOLLOW US ON FACEBOOK WEATHER MODIFICATION HISTORY

Vědkyně Dr. Florence Van Straten ve spolupráci s americkým námořnictvem sděluje výsledky experimentu. "Vypustili jsme popílek a uhlíkový prach po délce jedné míle a na stejném místě jsme vytvořili mraky stejné délky. Když jsme popílek vypustili do mraků, ty se prakticky okamžitě rozpustily. Jedná se o velmi levnou záležitost, cça 18 centů na mrak. Popílek je totiž v průmyslové



Je možné také použít popílek a uhlíkový prach, abychom zvýšili srážky, změnili směr cyklónů, utlumili vysoké letní teploty a extrémní počasí, zabránili frontám a urychlili tání sněhu v okrajových zemědělských oblastech. 1975



WEATHER MODIFICATION



Test Technology Symposium '97 Session B:

Advanced Weapon/Instrumentation Technologies

John Hopkins University/Applied Physics Laboratory

by

Dr. Arnold A. Barnes, Jr.

Senior Scientist

Optical Effects Division

Phillips Laboratory

19 March 1997

Coordinates: @ 39°49'23"N 084°02'58"W









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Air Force Research Laboratory

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The Air Force Research Laboratory (AFRL) is a scientific research organization operated by the United States Air Force Materiel Command dedicated to leading the discovery, development, and integration of aerospace warfighting technologies, planning and executing the Air Force science and technology program, and providing warfighting capabilities to United States air, space, and cyberspace forces.^[1] It controls the entire Air Force science and technology research budget which was \$2.4 billion in 2006. [2]

The Laboratory was formed at Wright-Patterson Air Force Base near Dayton, Ohio on 31 October 1997 as a consolidation of four Air Force laboratory facilities (Wright, Phillips, Rome, and Armstrong) and the Air Force Office of Scientific Research under a unified command. The Laboratory is composed of eight technical directorates, one wing, and the Office of Scientific Research. Each technical directorate emphasizes a particular area of research within the AFRL mission which it specializes in performing experiments in conjunction with universities and contractors.

Since the Laboratory's formation in 1997, it has conducted numerous experiments and technical demonstrations in conjunction with NASA, Department of Energy National Laboratories, DARPA, and other research organizations within the Department of Defense. Notable projects include the X-37, X-40, X-53, HTV-3X, YAL-1A, Advanced Tactical Laser, and the Tactical Satellite Program.

The Laboratory may face problems in the future as 40 percent of its workers are slated to retire over the next two decades while since 1980 the United States has not produced enough science and engineering degrees to keep up with demand.[3]



















Part of









Air Force Materiel Command



CLOUD SEEDING





CLOUD SEEDING (cont.)



WEATHER MODIFICATION USING CARBON BLACK (1)

- Increase Precipitation
 - » Muddy dirt roads to decrease tractability
 - » Flood fields and small rivers
 - » Decrease troop comfort level
 - Decrease tractability by snow or freezing rain when the temperature conditions are right
- Decrease Precipitation #
 - » Dry out roads/fields for improved tractability
 - » Deny fresh water to troops in semi-dry regions

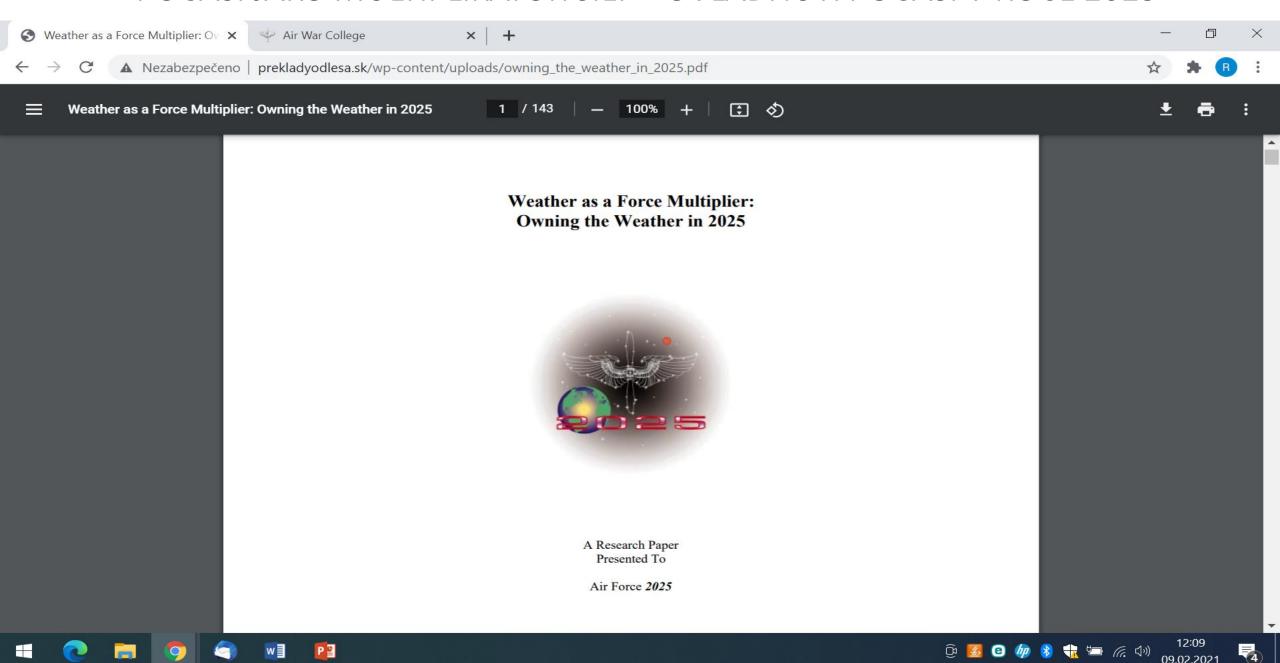
WEATHER MODIFICATION USING CARBON BLACK (2)

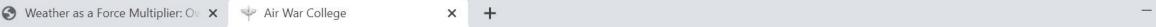
- Increase Cirrus Cloud Cover
 - » Deny visual satellite or high altitude reconnaissance
 - » Decrease light level for night time operations
- Dissipate Fog

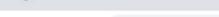
TTS 97 CLIMATEVIEWED COM - WEATHERMODISICATIONHISTORY COM

- » Uncover targets for visual raids
- » Provide visual inspection of damage
- » Provide visual reconnaissance
- » Open airfields for landing / recovery

POČASÍ JAKO MULTIPLIKÁTOR SÍLY – OVLÁDNUTÍ POČASÍ V ROCE 2025























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Globální síť počasí, senzory, počítačové modely, nástroje pro komunikaci, chemikálie, vzdušná vozidla pro doručování, zbraně přímých energií, umělá ionosférická zrcadla, chytré mraky plné nanočástic. Uhlíkový popílek. Virtuální počasí.

t

Weather as a Force Multiplier: Owning the Weather in 2025

by Col Tamzy J. House, Lt Col James B. Near, Jr., LTC William B. Shields (USA), Maj Ronald J. Celentano Maj David M. Husband, Maj Ann E. Mercer, Maj James E. Pugh, August 1996 http://csat.au.af.mil/2025/volume3/vol3ch15.pdf

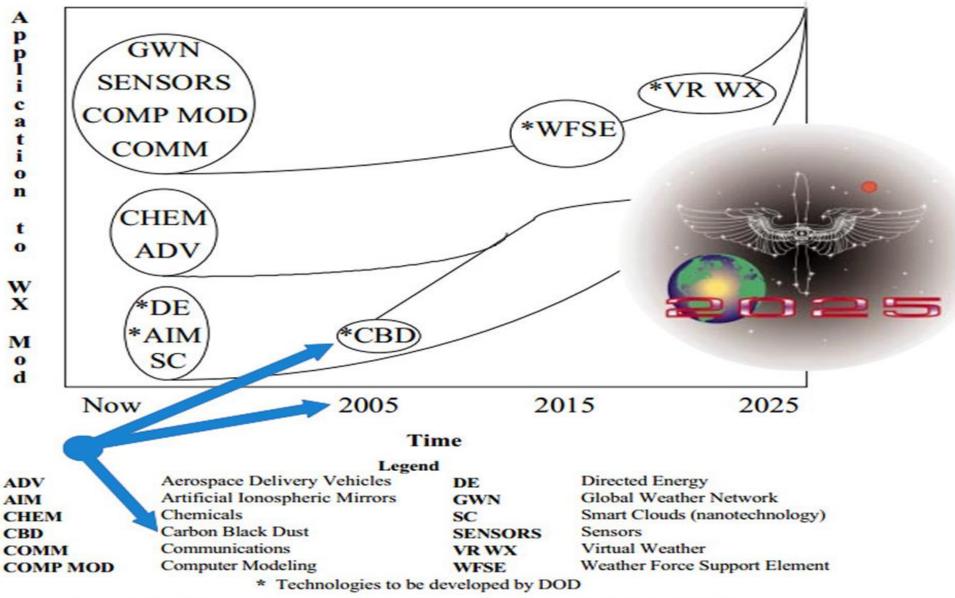


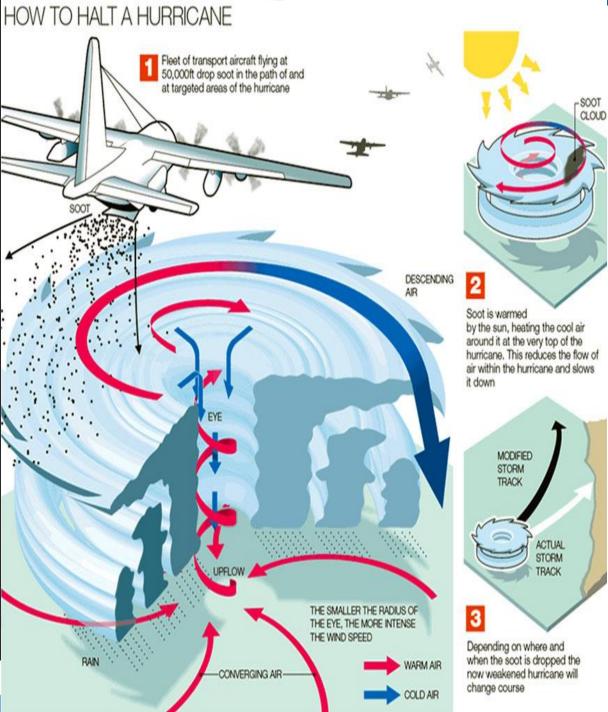
Figure 5-2. A Systems Development Road Map to Weather Modification in 2025.

Hurricane Modification Workshop



February 6-7, 2008
David Skaggs Research Center
Downstairs/Multipurpose Room
GC402

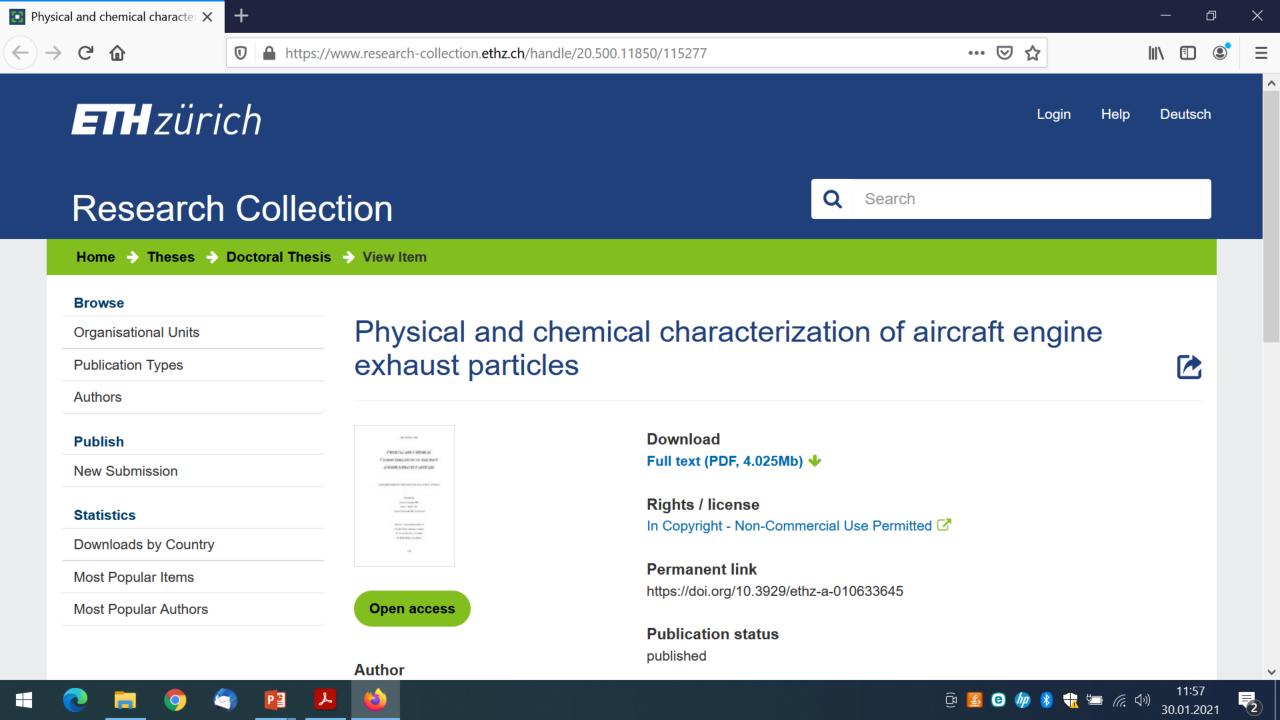


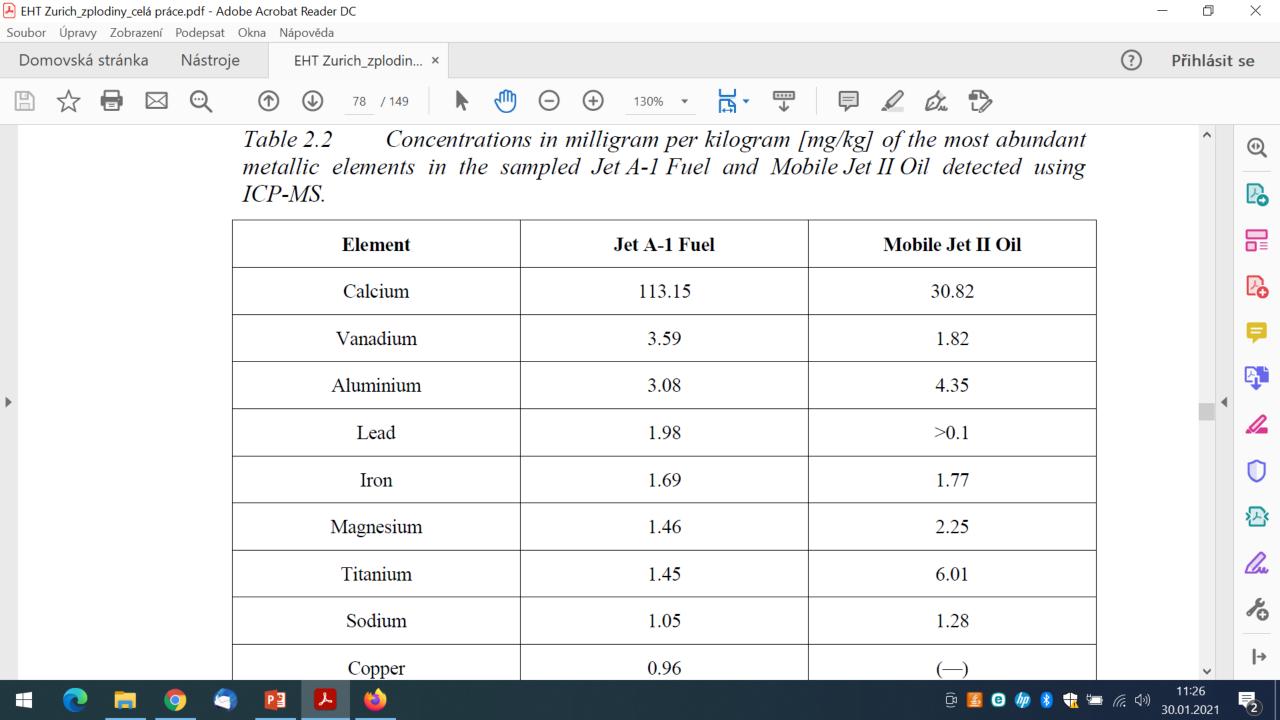


ZPLODINY Z LETADEL OBSAHUJÍ TĚŽKÉ KOVY

Charakterizace emisí a zplodin z letadel využitím metody hmotnostní spektrometrie – Institut technologie v Zurichu







Ročně se ze zplodin komerčních letadel dostane do ovzduší cca 1000 tun částic hliníku

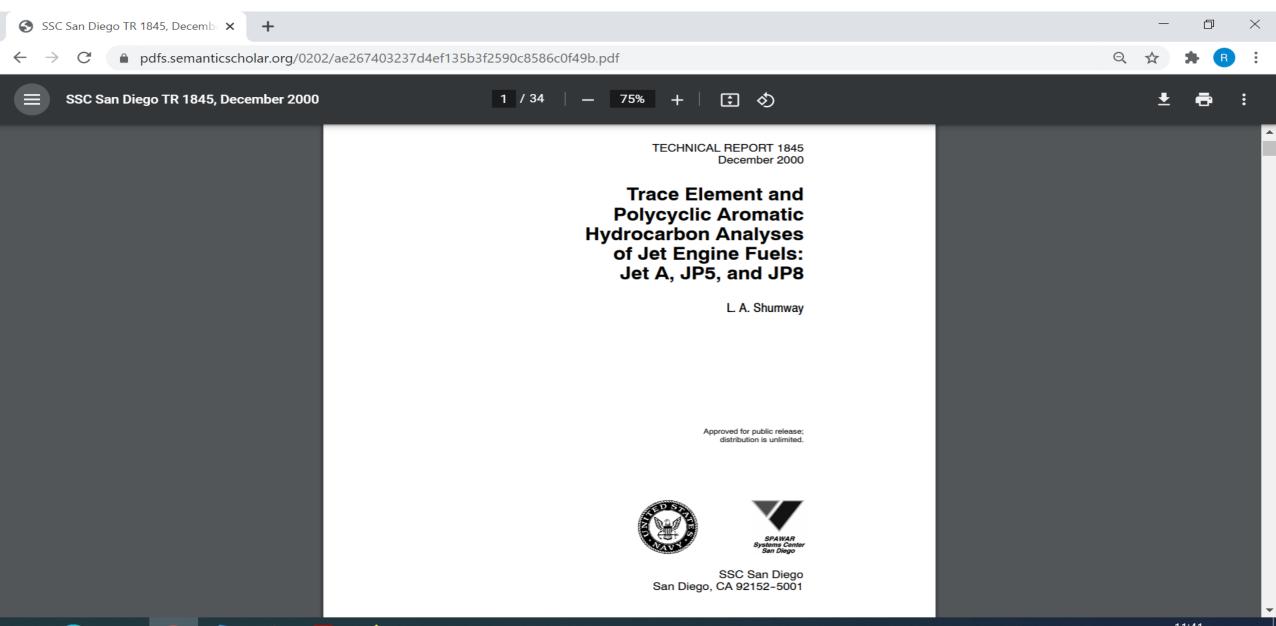
Hustota leteckého paliva je někde mezi 775 a 840 kg/m3. Cca průměr 800 kg/m3

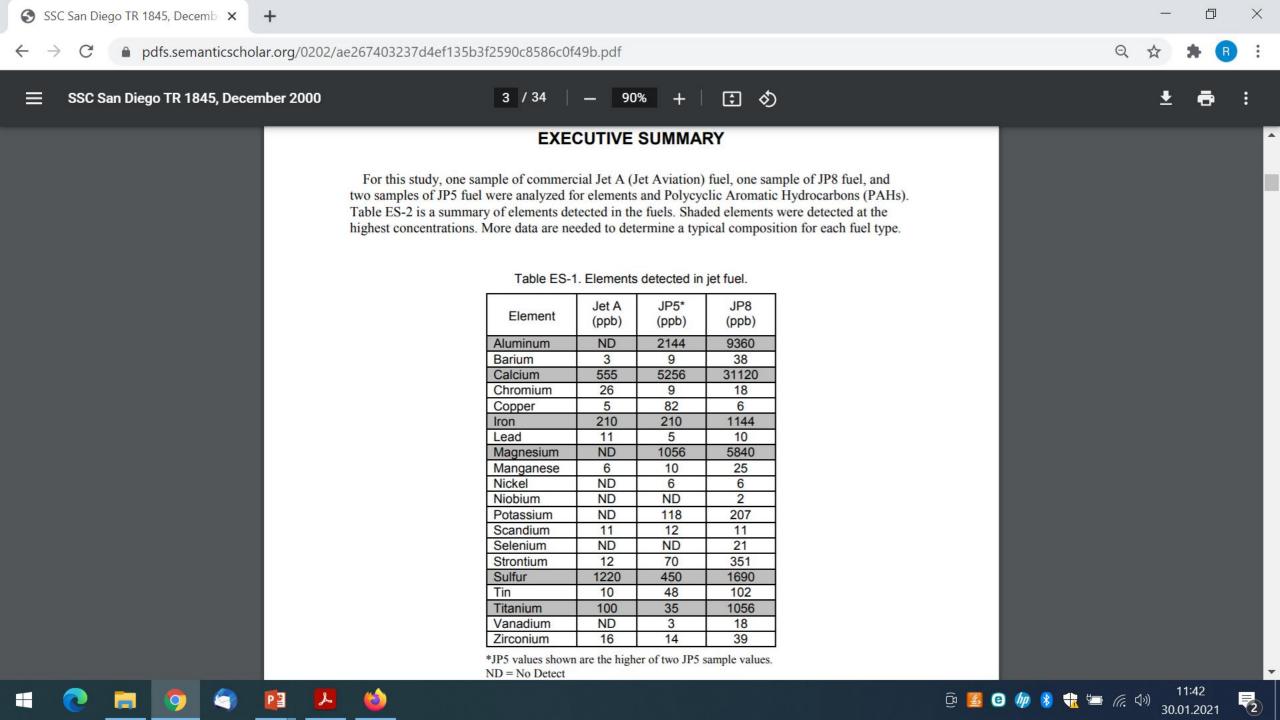
Spotřeba paliva 378 mld. l/rok = $378 \times 10^6 \text{ l} = 378 \times 10^6 \text{ dm} = 378 \times 10^3 \text{ m}$

Přepočteno na hmotnost: 800 kg/m3 x 378 x 10^3 m3 = 302,4 x 10^6 kg

A obsah hliníku: $302,4 \times 10^6 \times 3,08 \times 10^{-3} = 931,392 \text{ tun}$

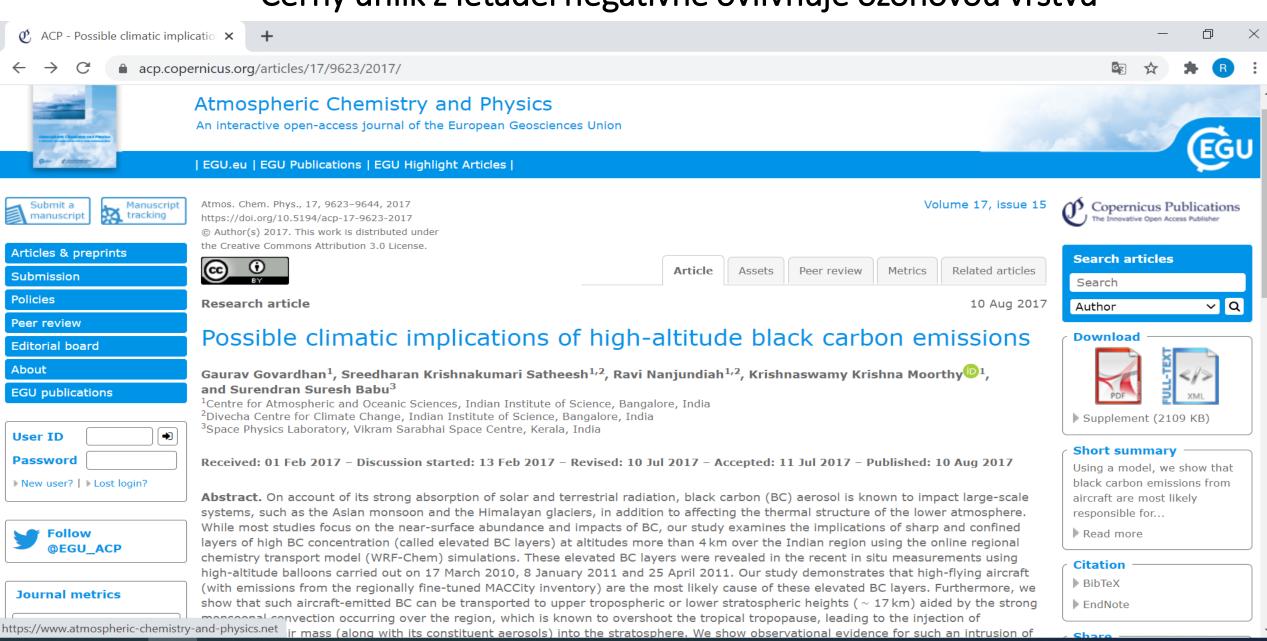
Technická zpráva: Analýza paliv u letadel



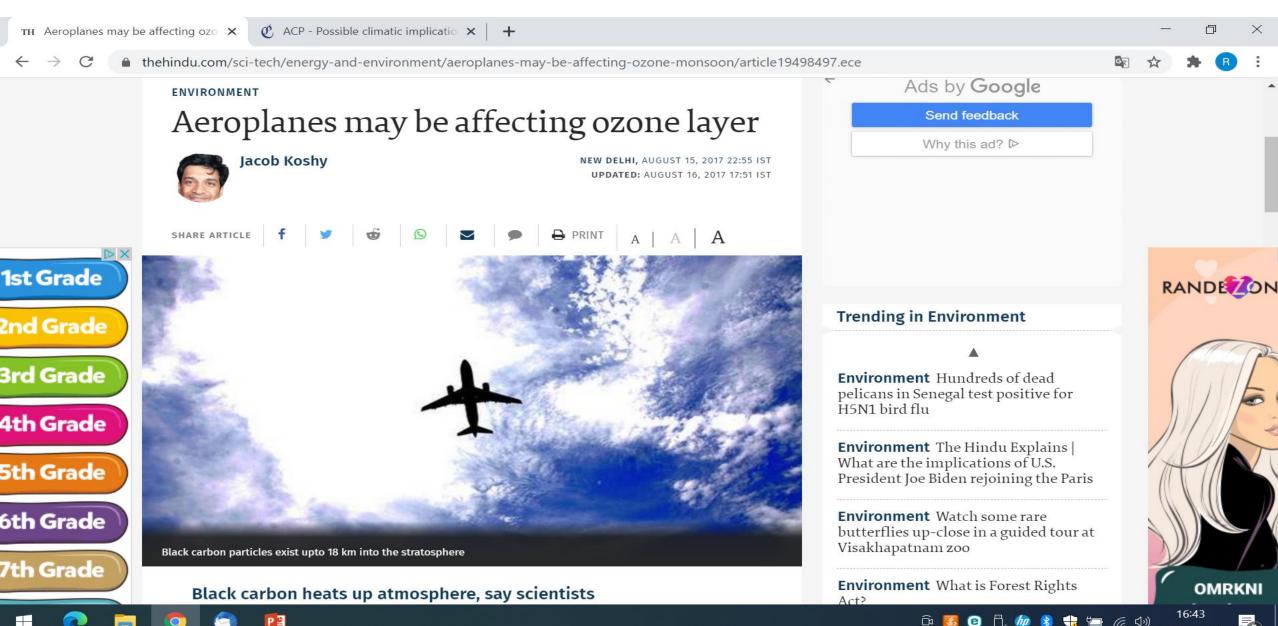


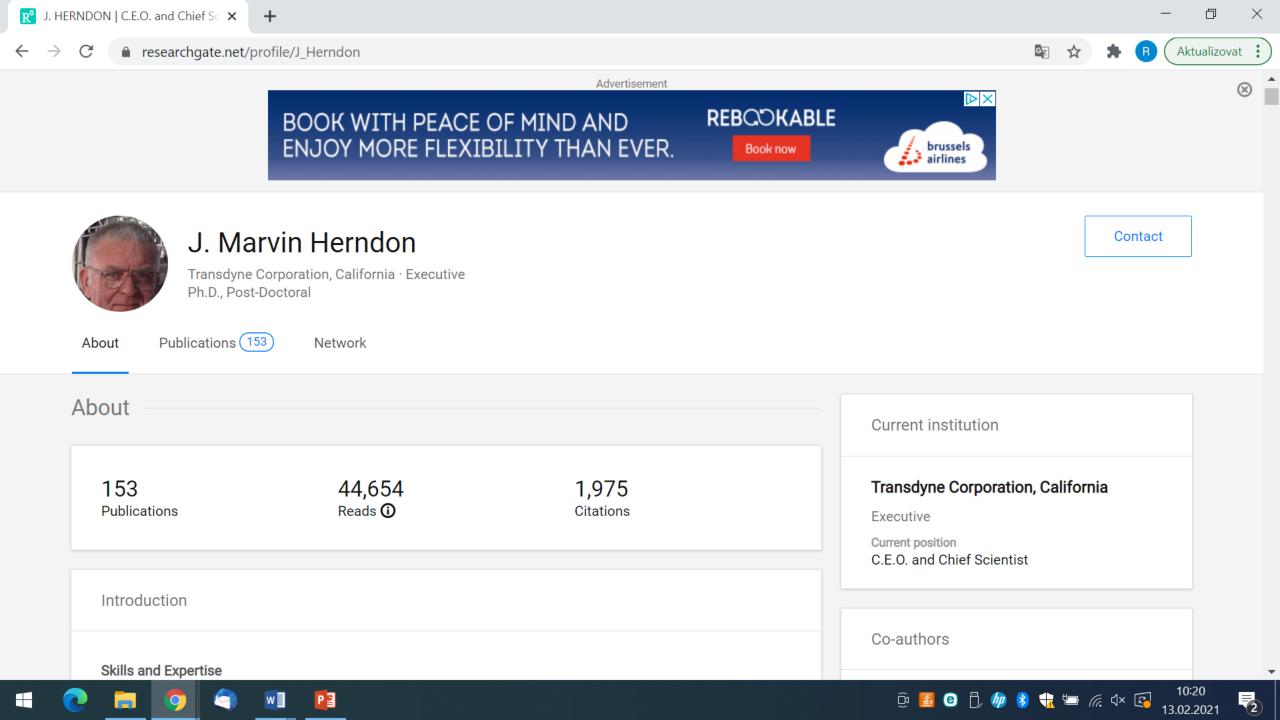
POPÍLEK, UHLÍKOVÝ PRACH KOLEM NÁS I VE STRATOSFÉŘE, DOPADY

Černý uhlík z letadel negativně ovlivňuje ozónovou vrstvu

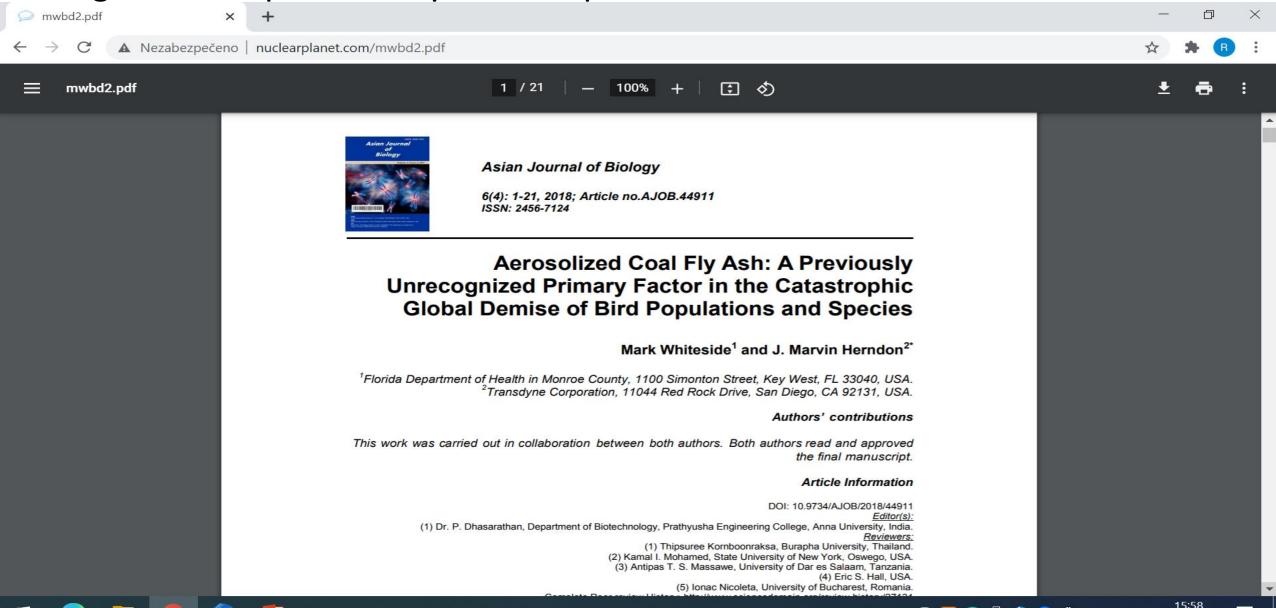


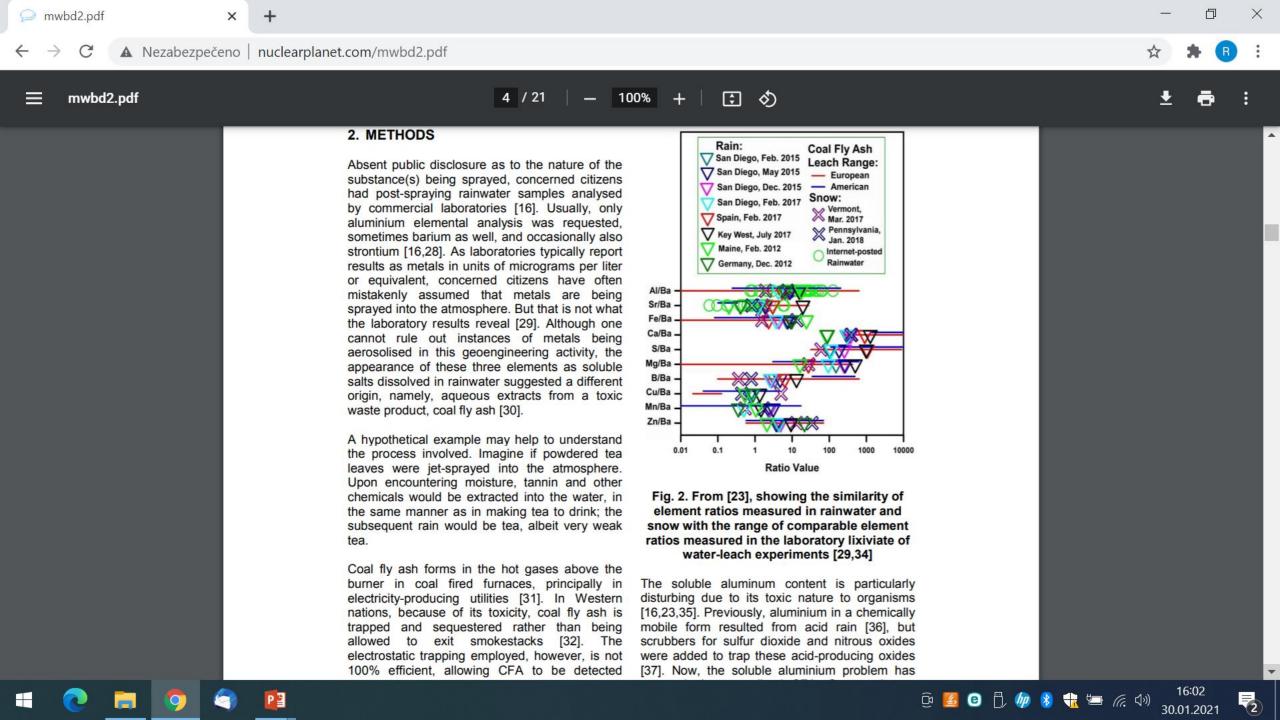
Letadla ovlivňují ozónovou vrstvu

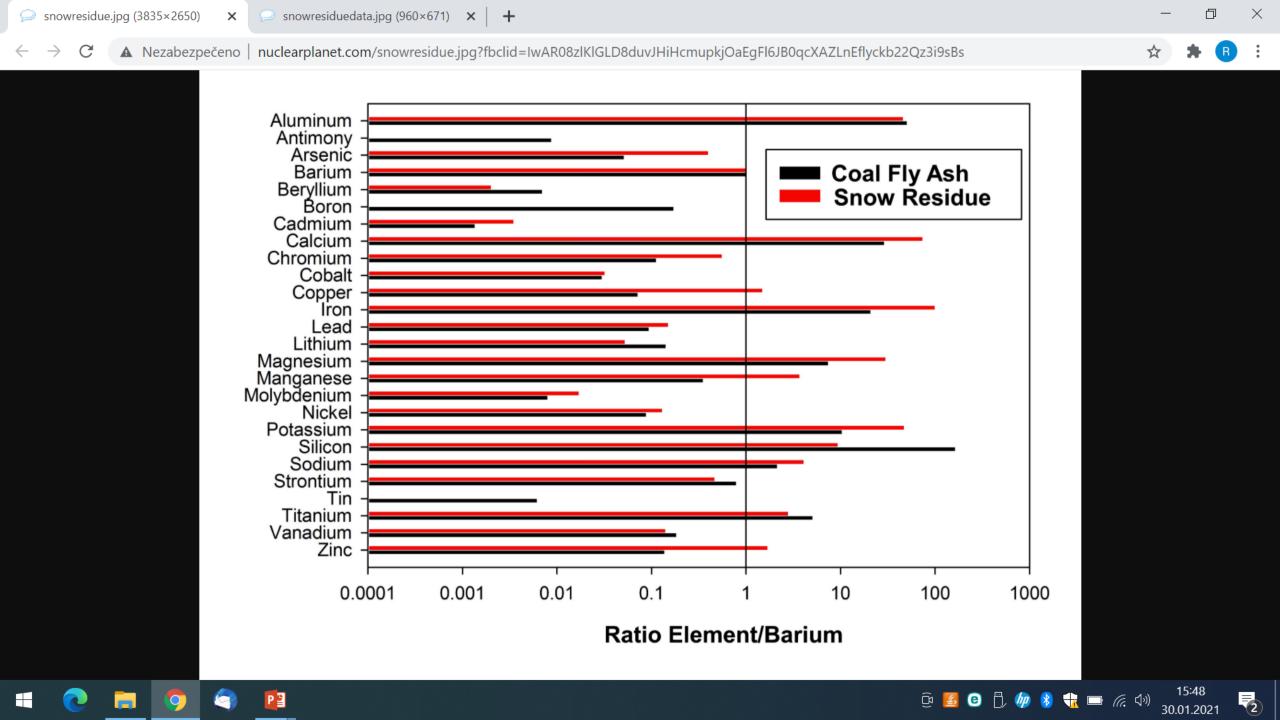


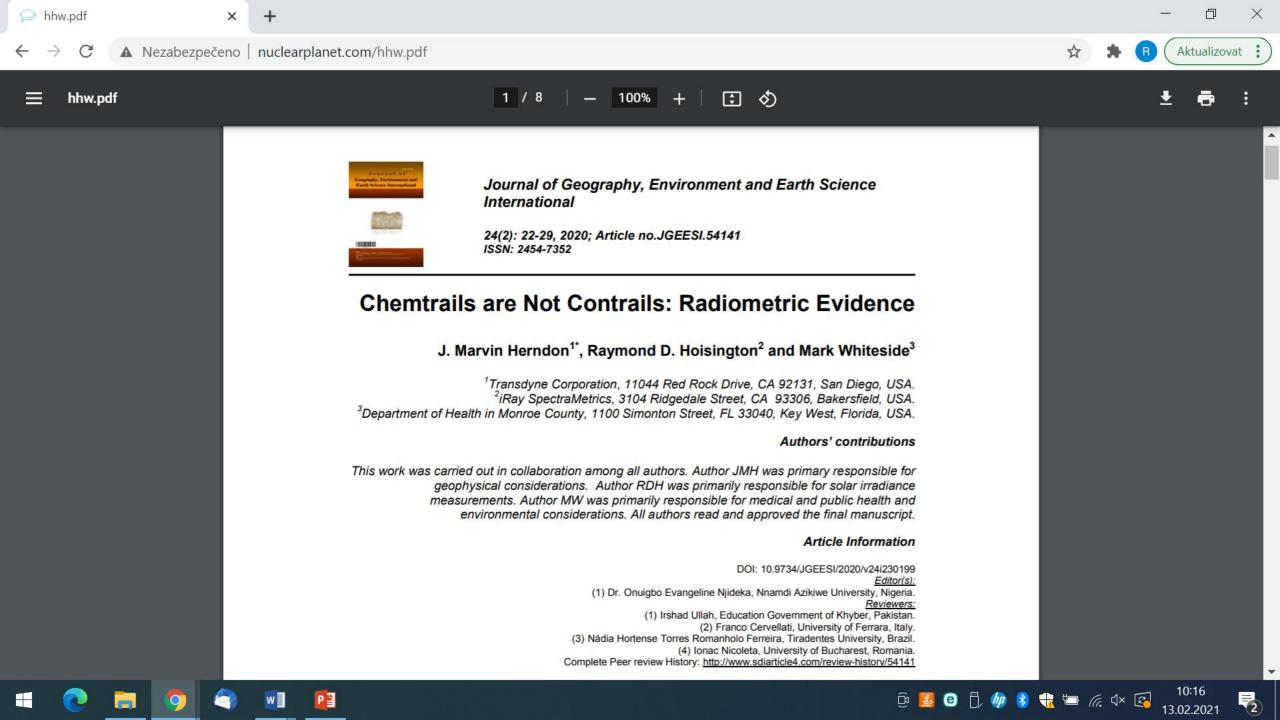


Aerosoly popílku a sazí: Dříve nepoznaný primární faktor v katastrofálním globálním úpadku různých druhů ptáků







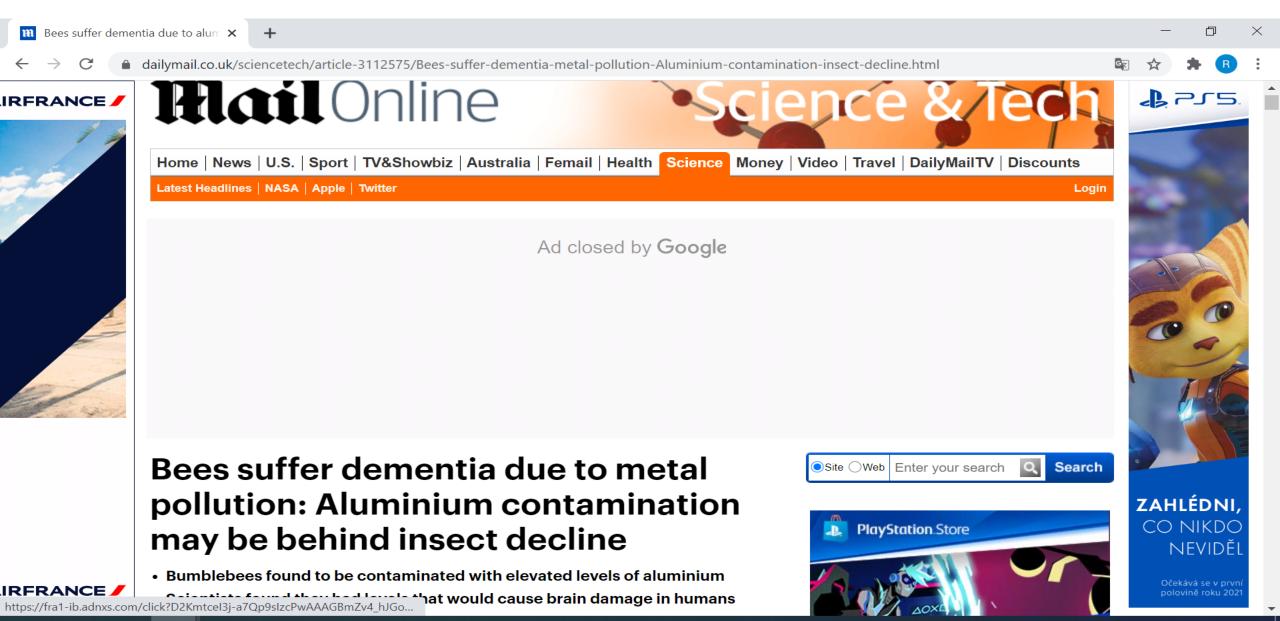


Radiometrické měření ultrafialového záření ukazuje výskyt nanočástic těžkých kovů ▲ Nezabezpečeno | nuclearplanet.com/hhw.pdf ▲ Nezabezpečeno | nuclearplanet.com/hhw.pdf 4 / 8 | - 100% + | 🕏 🖒 3 / 8 | - 100% + | 🕏 👌 Herndon et al.: JGEESI, 24(2): 22-29, 2020; Article no. JGEESI, 54141 During the course of routine solar ultraviolet measurements, which automatically tracks Sol's motion, a jet laid aerosol trail between the December 31, 2019 11:40:30 to 11:48:57 UV Data, 250 to 300 Nanometers radiometer and the solar disc permitted measurements of the relative absorption of UV-B.C. As discussed below, the results are consistent with the aerosol trail consisting of particulate matter, not ice crystals; a chemtrail, not a contrail. The iet-sprayed particulate trails now routinely observed throughout much of the world are consistent with what is more properly called tropospheric aerosol geoengineering. 2. METHODOLOGY 1:41 11:42 11:43 11:44 11:45 11:46 11:47 11:48 The experimental method pertains to solar spectrometric irradiance measurements at Earth's surface that employs International Light ■07-08 ■08-09 ■09-1 ■1-1.1 ■1.1-1.2 ■1.2-1.3 Technologies ILT950UV Spectral Radiometer with fractional-nanometer resolution in the short-Fig. 3. UV data, plotted through the range 250 to 300 nm. wavelength portion of the ultraviolet (UV) The red portion of that time axis, taken from the range of time-stamps of the iPhone photographs shown in Fig. 2, spectrum. The radiometer is mated to a Meade shows the time of radiometer-sensor transit through the aerosol chemtrail. The reduction of UV intensity through LXD55 auto guider telescope tripod and mount this aerosol-transit range is clearly evident. Measurements were terminated at 250 nm to avoid uncertainties that assembly, which permits automatic tracking. The increase as the wavelength decreases below 250 nm. instrumentation specifications and the methodology used have been previously 4. DISCUSSION possibly be ice-crystal contrails because, as described in detail [11]. discussed above, ice has low absorption not only The UV absorption evident in Fig. 3 during the for UV, but for visible light as well [12,13]. 3. RESULTS time of radiometer-sensor transit through the aerosol trail is unambiguous radiometric Other physical manifestations of aerosol trails Fig. 2 consists of two iPhone photographs taken evidence that the chemtrail is not an ice-crystal are likewise inconsistent with ice-crystal from behind the auto guider radiometer mount Fig. 2. Photographs taken from behind the contrail because UV absorption by ice throughout contrails. These include dispersal rather than showing the radiometer sensor's entry and exit auto guider radiometer mount showing the the wavelength interval measured is negligible. evaporation, spontaneous start-stop-start through the aerosol particulate trail, aka radiometer sensor's entry and exit through particulate trail production, and trail origination chemtrail. The entry and exit times, accurately the aerosol chemtrail The absorption coefficient of ice, $k_{\rm ice}$, at 300 nm sometimes not being associated with engine determined from the iPhone time-stamps are. Photographs by author (RDH) is < 0.1m⁻¹ [12, 13] and 0.665 m⁻¹ at 250 nm [13] exhaust [5]

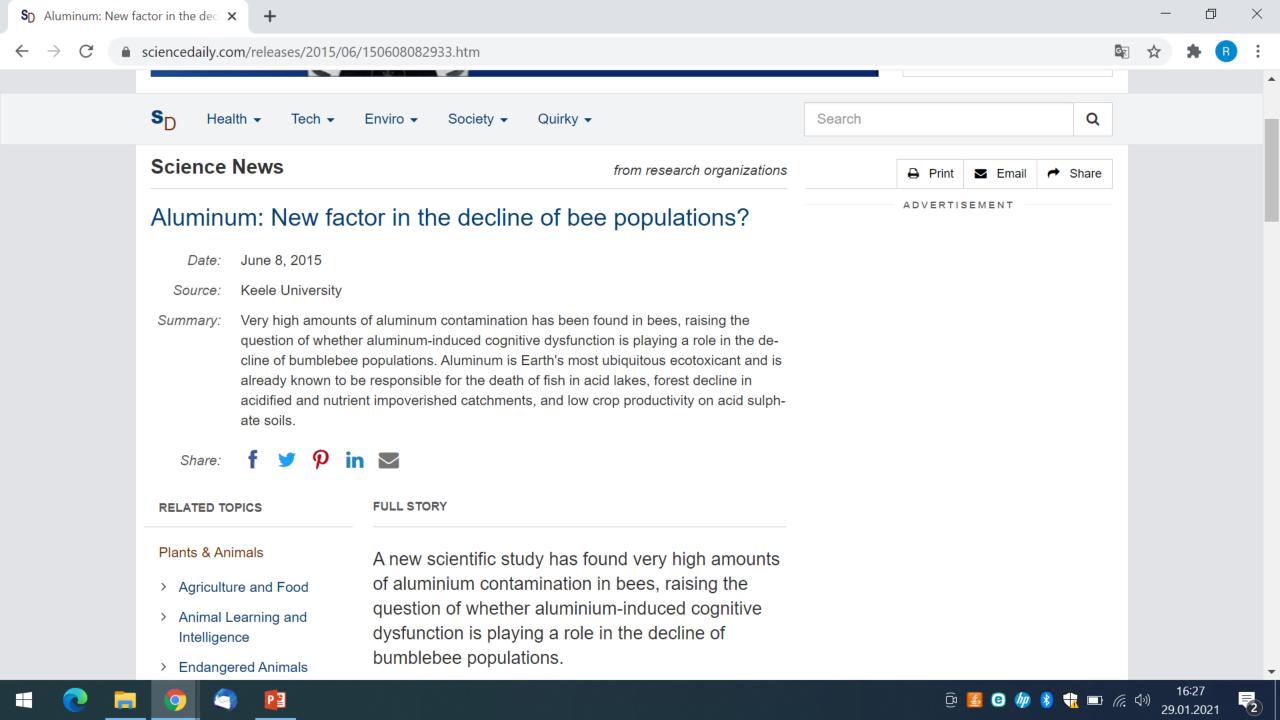
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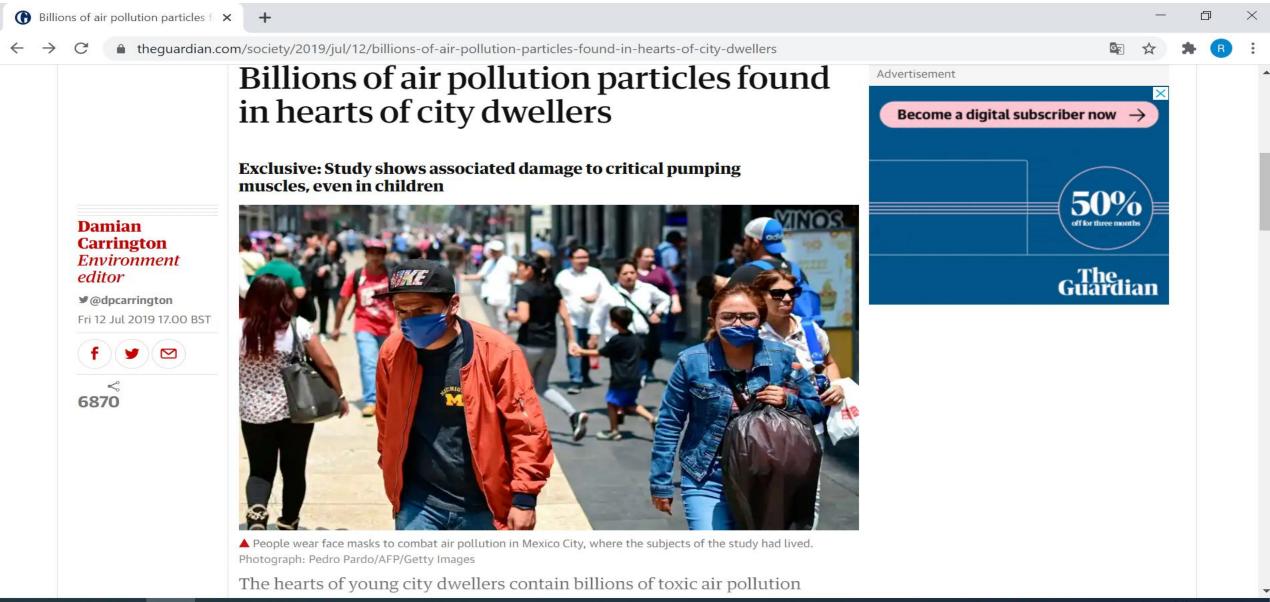
Hliník může být důležitou příčinou úpadku hmyzu







Miliardy částic z nečištěného ovzduší v srdcích lidí ve městech



















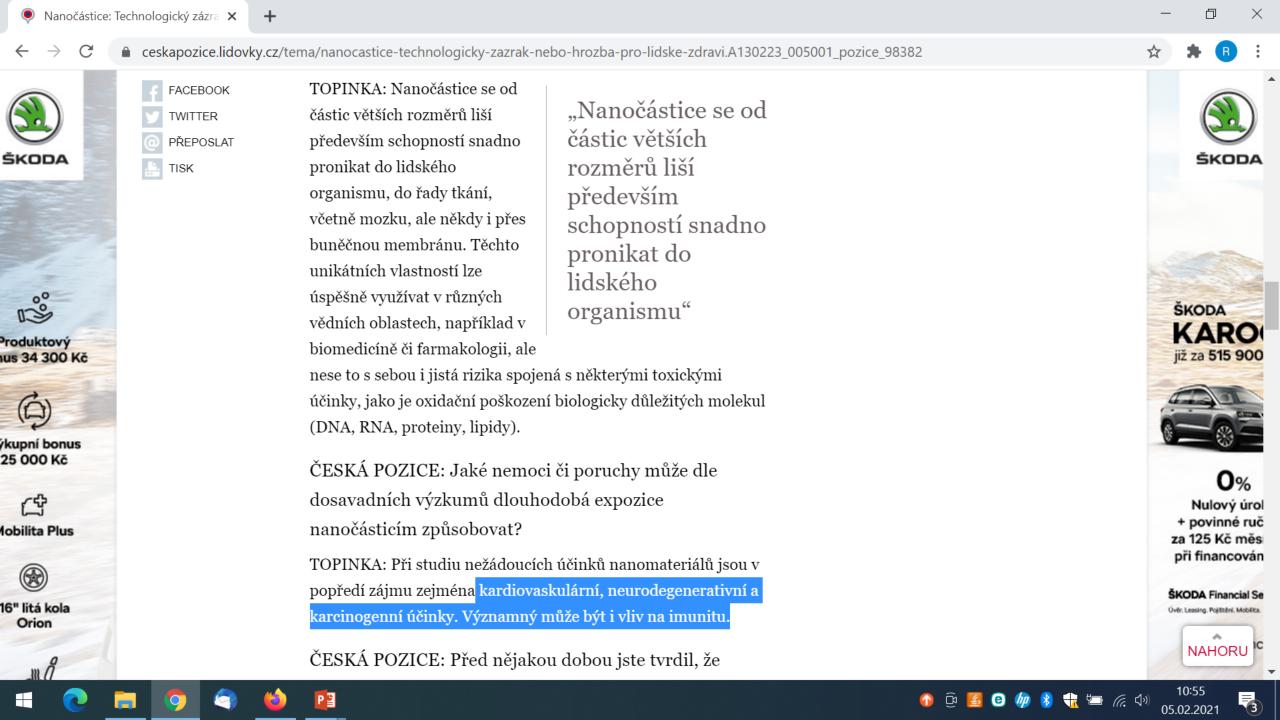




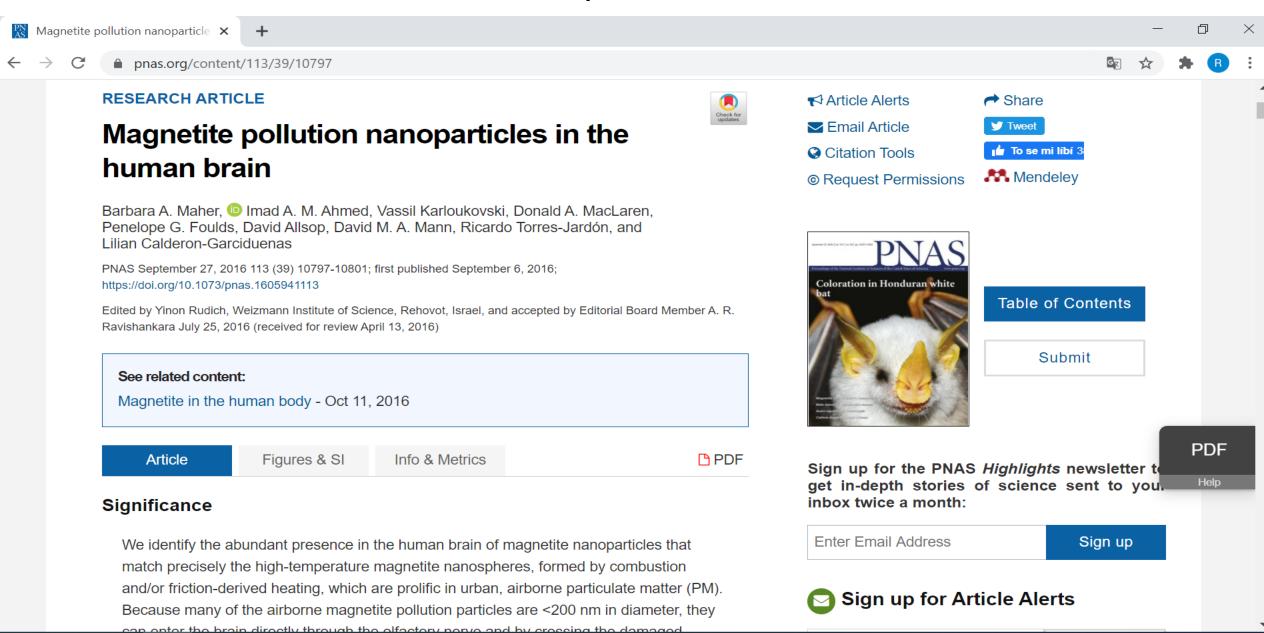








Nanočástice těžkých kovů v lidském mozku

















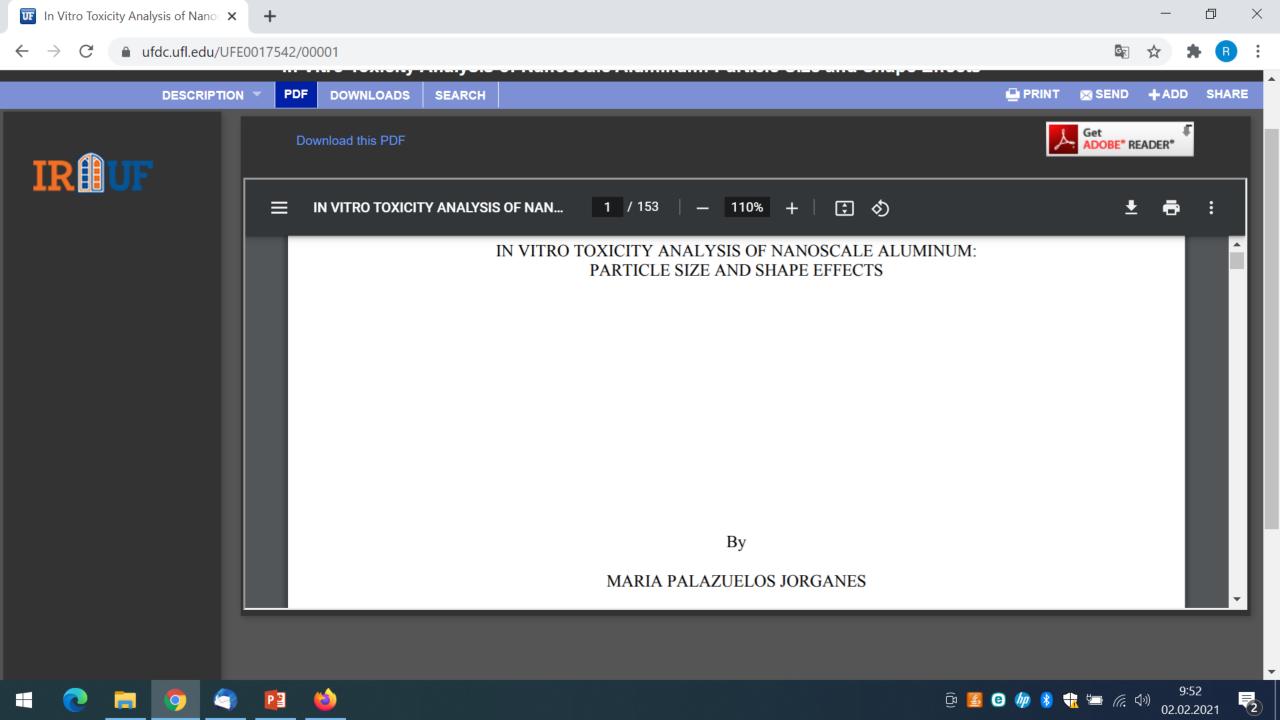




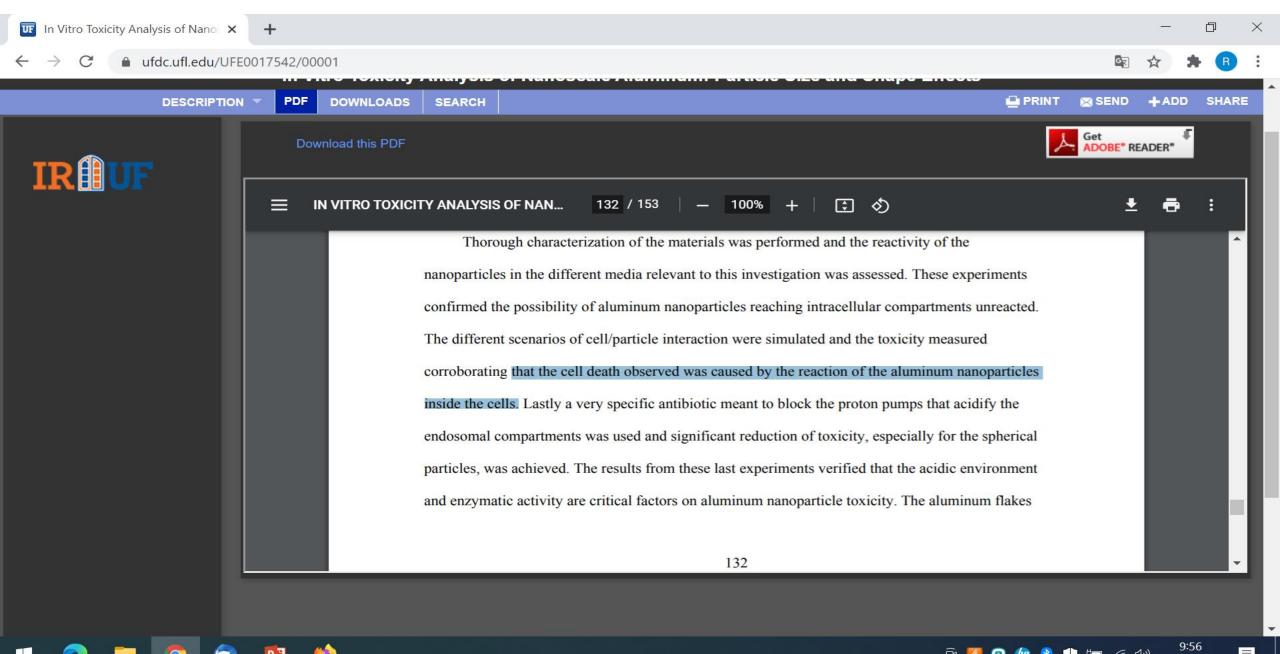


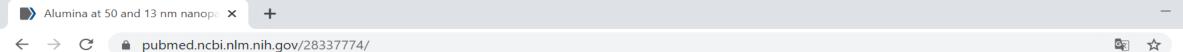






Nanočástice hliníku mají schopnost zničit lidské buňky





Alumina at 50 and 13 nm nanoparticle sizes have potential genotoxicity

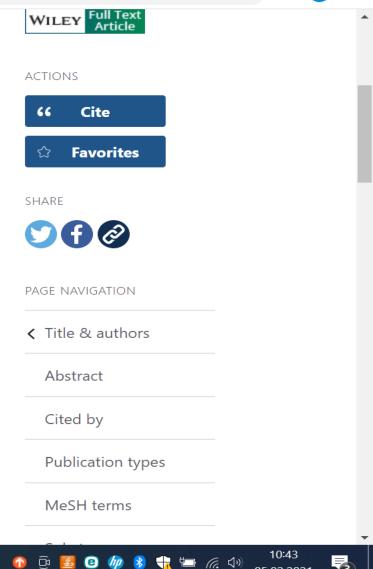
Qinli Zhang ^{1 2}, Haiyang Wang ¹, Cuicui Ge ¹, Jeremy Duncan ³, Kaihong He ¹, Samuel O Adeosun ³, Huaxin Xi ¹, Huiting Peng ¹, Qiao Niu ¹

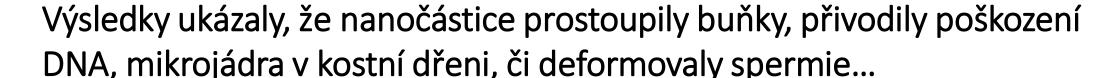
Affiliations + expand

PMID: 28337774 DOI: 10.1002/jat.3456

Abstract

Although nanomaterials have the potential to improve human life, their sideline effects on human health seem to be inevitable and still are unknown. Some studies have investigated the genotoxicity of alumina nanoparticles (AlNPs); however, this effect is still unclear due to insufficient evaluation and conflicting results. Using a battery of standard genotoxic assays, the present study offers evidence of the genotoxicity associated with aluminum oxide (alumina) at NP sizes of 50 and 13 nm, when compared with bulk alumina (10 µm). The genotoxicity induced by alumina at bulk and NP sizes was evaluated with Ames test, comet test, micronucleus assay and sperm deformity test. The mechanism related to the induction of reactive oxygen species was explored as well. Our results showed that AlNPs (13 and 50 nm) were able to enter cells and induced DNA damage, micronucleus in bone marrow, sperm deformation and reactive oxygen species induction in a time-, dose- and size-dependent manner. Therefore, we conclude that AlNPs (13 and 50 nm), rather than bulk alumina, induce markers of genotoxicity in mice, with oxidative stress as a potential mechanism driving these genotoxic effects. Copyright © 2017 John Wiley & Sons, Ltd.





KLIMATICKÉ INŽENÝRSTVÍ – ŘÍZENÍ SOLÁRNÍHO ZÁŘENÍ (angl. SRM), IMITACE VÝBUCHU SOPKY SUN

"If the time and place of seeding is selected with care, the climate effect of cirrus thinning can be enhanced. For that, only the long-wave warming effect of cirrus clouds should be targeted, and their solar effect should be avoided. This can be achieved if seeding is limited to high-latitude winters or to nighttime seeding." Climate Change and Geoengineering: Artificially Cooling Planet Earth by Thinning Cirrus Clouds

Solar Radiation Management

SRM

Soot is a cloud seed that self-levitates Soot transports Sulfur into Stratosphere Sulfur and Soot destroy the Ozone Layer Metals in soot make cirrus clouds Cirrus clouds cool during daytime (SRM) Cirrus clouds trap heat at night (ERM)

31 Miles
50 Kilometers

OZONE LAYER

STRATOSPHERIC AEROSOL INJECTION (SAI)

39k Feet

EARTH RADIATION MANAGEMENT

ERM

"We would like to have MORE Contrail-induced Cirrus Clouds during day and NONE during night" - Dr. Rangasayi Halthore FAA Aviation Climate Change Research Initiative (ACCRI) "Less Warming and More Cooling Contrails: Predictable for Operational Planning" - Dr. Ulrich Schumann, German Aerospace Center,

ICAO Colloquium on Aviation and Climate Change 2010

CLIMATEVIEWER.COM/CIRRUSCLOUDSMATTER/

Popílek uhlíku spoluvytváří cirrus mraky, které zůstávají na obloze, či dokonce stoupají a mohou transportovat síru do stratosféry (ozónová díra). Těžké kovy spoluvytváří vysoké cirrus mraky. Které sice mohou ochladit zemi během dne, ale zachycují teplo v noci. Je možné, že výsledkem může být globální oteplování.









HARVARD'S SOLAR GEOENGINEERING RESEARCH PROGRAM

a geoengineering.environment.harvard.edu/people/david-keith

ABOUT US GEOENGINEERING **EVENTS PUBLICATIONS PROJECTS GET INVOLVED** BLOG

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David Keith

Gordon McKay Professor of Applied Physics, Harvard John A. Paulson School of Engineering and Applied Sciences Professor of Public Policy, Harvard Kennedy School



David Keith has worked near the interface between climate science, energy technology, and public policy for twenty-five years. He took first prize in Canada's national physics prize exam, won MIT's prize for excellence in experimental physics, and was one of TIME magazine's Heroes of the Environment. David is Professor of Applied Physics at the Harvard School of Engineering and Applied Sciences and Professor of Public Policy at the Harvard Kennedy School, and founder of Carbon Engineering, a company developing technology to capture CO2 from















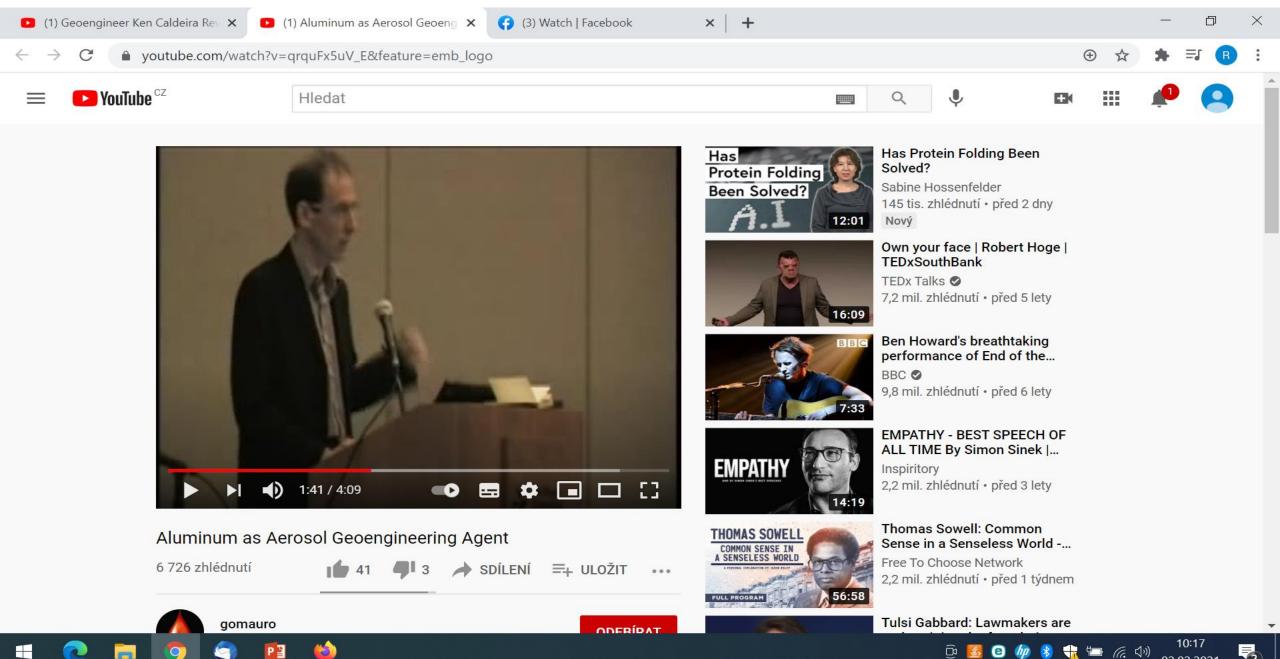




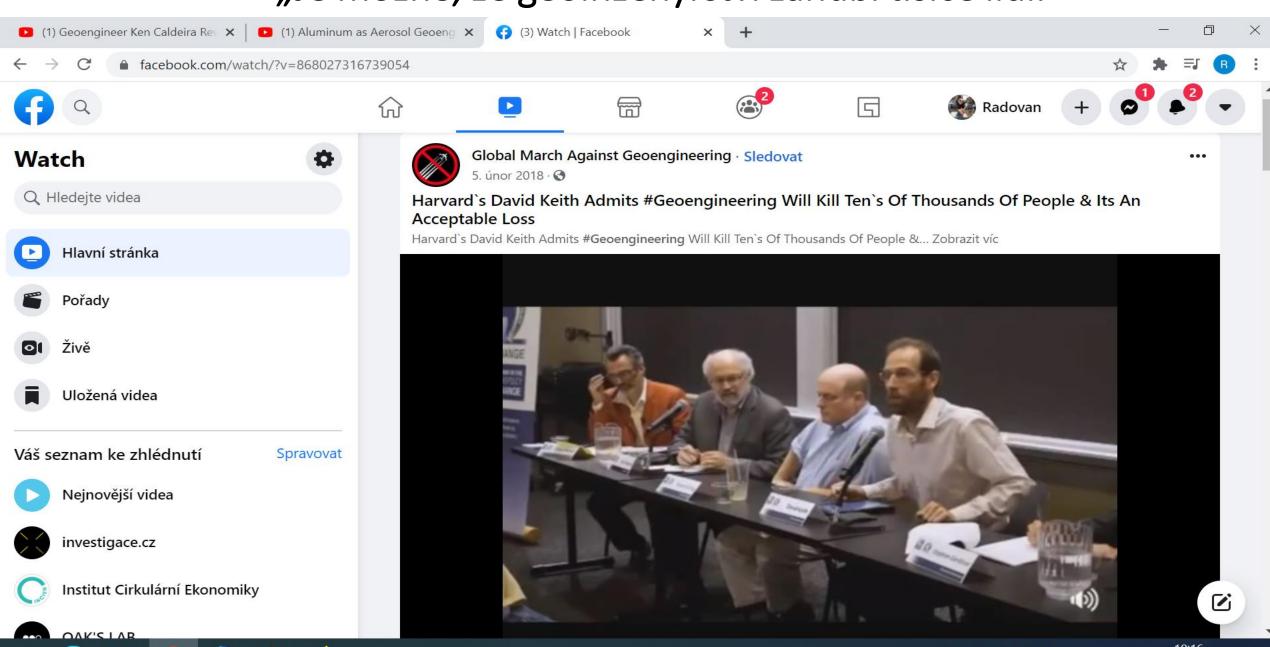




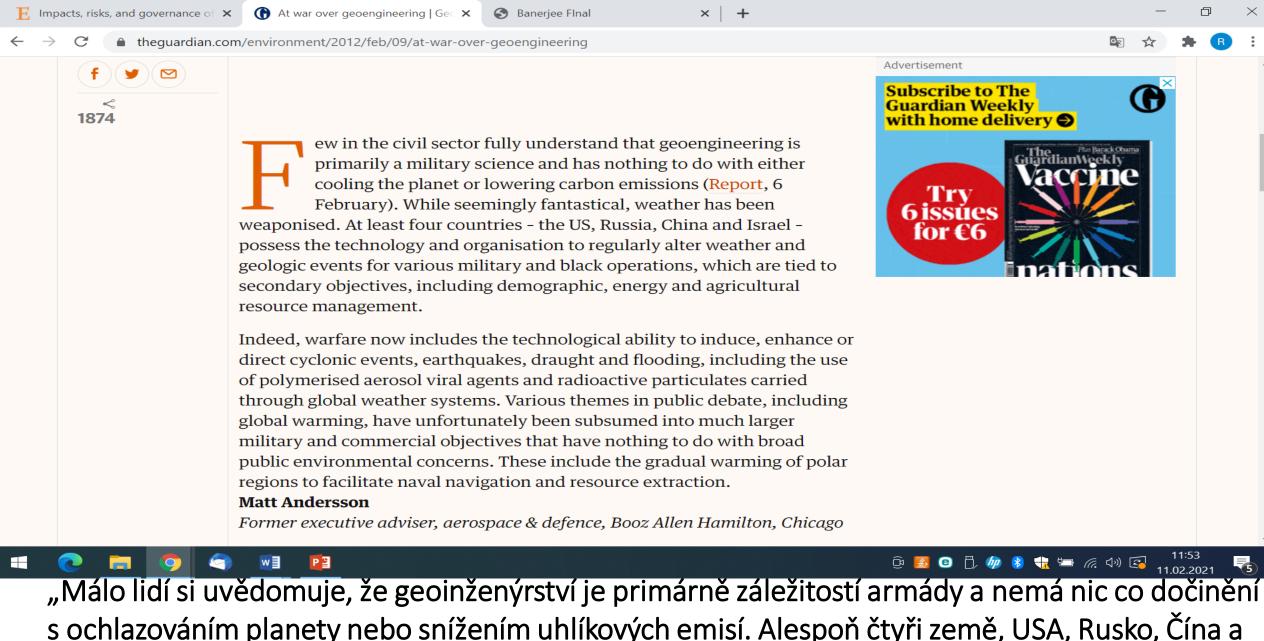
"Bude nutné do ovzduší vypustit milióny tun sloučenin síry či hliníku"



"Je možné, že geoinženýrství zahubí tisíce lidí."



02.02.2021



"Maio lidi si uvedomuje, ze geoinzenyrstvi je primarne zalezitosti armady a nema nic co docinen s ochlazováním planety nebo snížením uhlíkových emisí. Alespoň čtyři země, USA, Rusko, Čína a Izrael – mají technologie a schopnost pravidelně měnit počasí a geologické události s cílem umožnit různé armádní a tajné operace..." *Bývalý hlavní poradce věhlasné armádní firmy*









▲ Nezabezpečeno | people.envsci.rutgers.edu/robock/



Alan Robock

(click here for Biographical Sketch and other photos)

B.A., University of Wisconsin, 1970 Meteorology, Advisor: Lyle H. Horn

S.M., Massachusetts Institute of Technology, 1974 Meteorology, Advisor: Norman A. Phillips

Ph.D., Massachusetts Institute of Technology, 1977 Meteorology, Advisor: Edward N. Lorenz

RUTGERS

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Phone: +1-848-932-5751

E-mail: robock@envsci.rutgers.edu

Co-Director, Rutgers Impact Studies of Climate Intervention (RISCI) lab Member, Undergraduate Meteorology Program Member, Graduate Program in Atmospheric Science Member, Institute of Earth, Ocean, and Atmospheric Sciences

Associate Editor, Reviews of Geophysics

Research Interests:

Nuclear Winter Climate Intervention (Geoengineering) GeoMIP Volcanic Eruptions and Climate VolMIP





















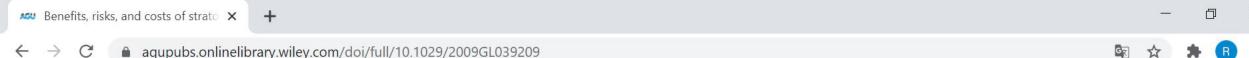












Geophysical Research Letters

Open Access Climate

Benefits, risks, and costs of stratospheric geoengineering

Alan Robock , Allison Marquardt, Ben Kravitz, Georgiy Stenchikov

First published: 02 October 2009 | https://doi.org/10.1029/2009GL039209 | Citations: 160

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Geophysical Research Letters

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Volume 36, Issue 19

October 2009

Abstract

[1] Injecting sulfate aerosol precursors into the stratosphere has been suggested as a means of geoengineering to cool the planet and reduce global warming. The decision to implement such a scheme would require a comparison of its benefits, dangers, and costs to those of other responses to global warming, including doing nothing. Here we evaluate those factors for stratospheric geoengineering with sulfate aerosols. Using existing U.S. military fighter and tanker planes, the annual costs of injecting aerosol precursors into the lower stratosphere would be several billion dollars. Using artillery or balloons to loft the gas would be much more expensive. We do not have enough information to evaluate more exotic techniques, such as pumping the gas up through a hose attached to a tower or balloon system. Anthropogenic stratospheric aerosol



Matrics







References

Related

Information





















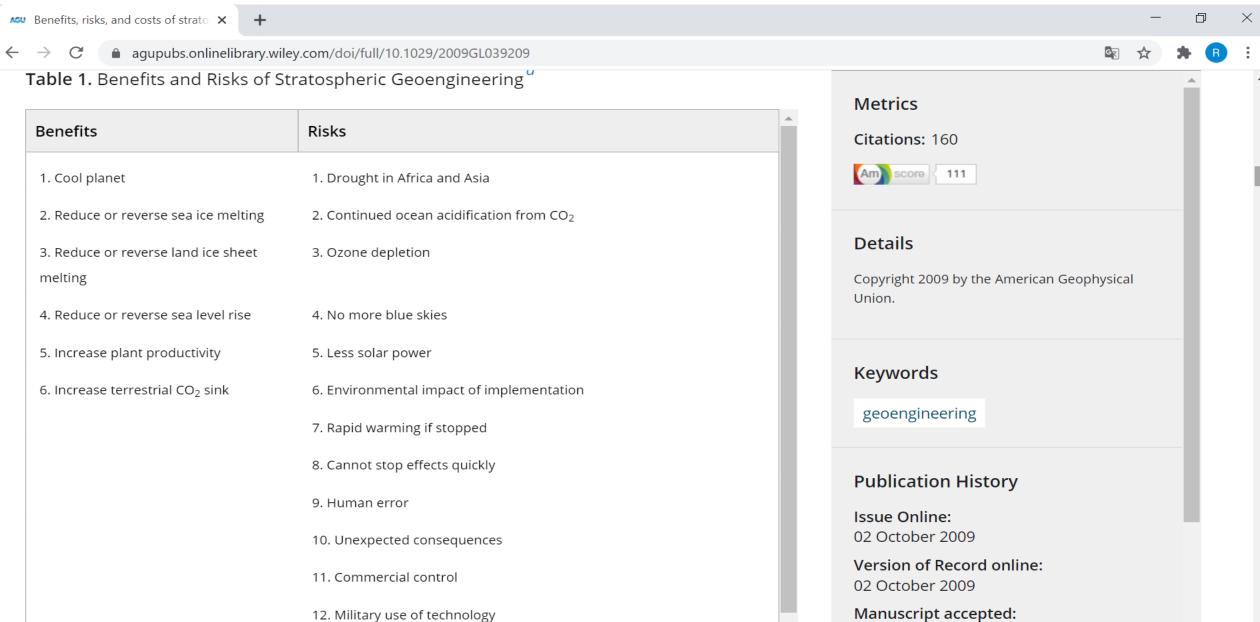








POZITIVA A NEGATIVA GEOINŽENÝRSTVÍ















20 August 2009























Benefits

Stratospheric Geoengineering

Risks or Concerns

1. Reduce surface air temperatures, which could reduce or reverse negative impacts of global warming, including floods, droughts, stronger storms, sea ice melting, and sea level rise

weathermodificationhistory.com/stratospheric-sulfur-geoengineering-benefits-and-risks/

- 2. Increase plant productivity
- 3. Increase terrestrial CO2 sink
- 4. Beautiful red and yellow sunsets
- 5. Unexpected benefits
- 6. Prospect of implementation could increase drive for mitigation

Can be addressed by GeoMIP and other climate modeling

Robock, Alan, 2008: 20 reasons why geoengineering may be a bad idea. Bull. Atomic Scientists, 64, No. 2, 14-18, 59, doi:10.2968/064002006.

Robock, Alan, 2014: Stratospheric aerosol geoengineering. Issues Env. Sci. Tech. (Special issue "Geoengineering of the Climate System"), 38, 162-185.

Robock, Alan, 2016: Albedo enhancement by stratospheric sulfur injection: More research needed. Earth's Future, 4, 644-648,

Physical and biological climate system

- 1. Drought in Africa and Asia
- 2. Perturb ecology with more diffuse radiation
- 3. Ozone depletion
- 4. Continued ocean acidification
- 5. May not stop ice sheets from melting
- 6. Impacts on tropospheric chemistry
- 7. Rapid warming if stopped

Human impacts

- 8. Less solar electricity generation
- 9. Degrade passive solar heating
- 10. Effects on airplanes flying in stratosphere
- 11. Effects on electrical properties of atmosphere
- 12. Affect satellite remote sensing
- 13. Degrade terrestrial optical astronomy
- 14. More sunburn
- 15. Environmental impact of implementation

Esthetics

- 16. Whiter skies
- 17. Affect stargazing

Unknowns

- 18. Human error during implementation
- 19. Unexpected consequences

Governance

- 20. Cannot stop effects quickly
- 21. Commercial control
- 22. Whose hand on the thermostat?
- 23. Societal disruption, conflict between countries
- 24. Conflicts with current treaties
- 25. Moral hazard the prospect of it working could reduce drive for mitigation

Ethics

26 Military use of technology



















Post Media - View Full Size









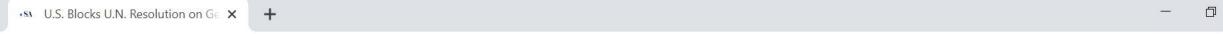












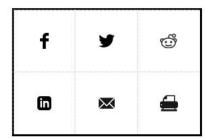


POLICY & ETHICS

U.S. Blocks U.N. Resolution on Geoengineering

The measure called for a report on carbon capture and solar radiation management

By Jean Chemnick, E&E News on March 15, 2019





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Co když se geoinženýrství zvrtne?











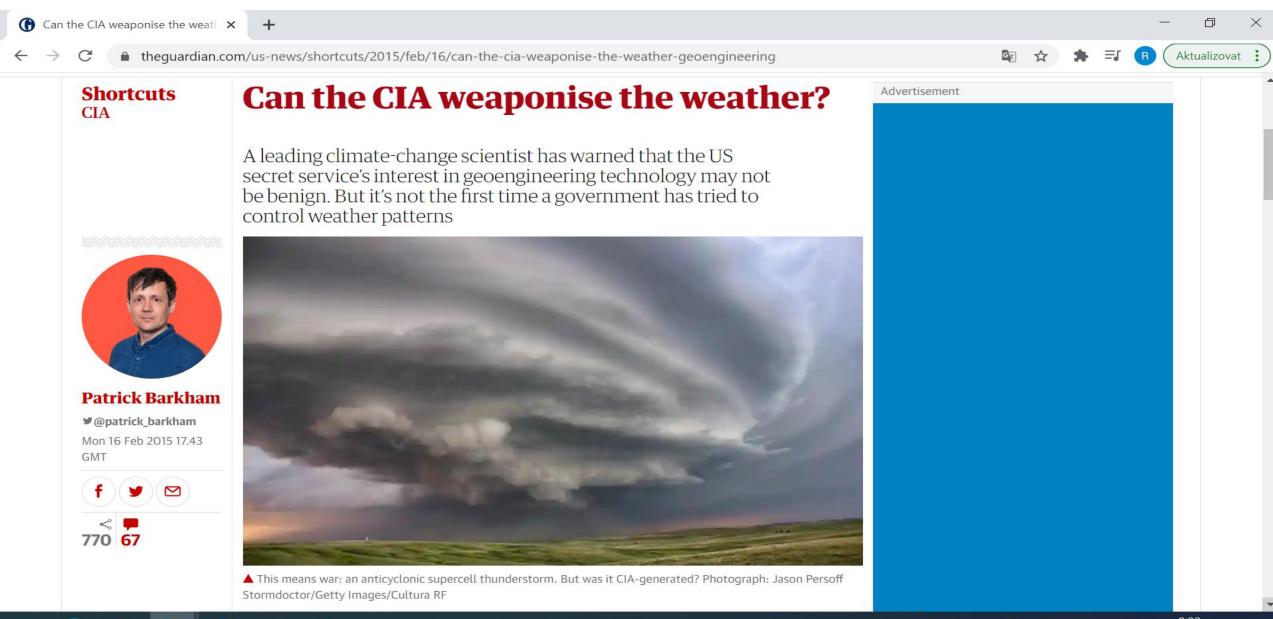








Může CIA využít počasí jako zbraň?





a carnegiescience.edu/scientist/ken-caldeira-emeritus







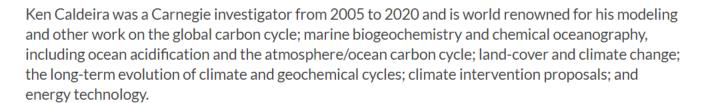
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KEN CALDEIRA - EMERITUS



Caldeira was a lead author for the U.N.'s Intergovernmental Panel on Climate Change (IPCC) AR5 report and was coordinating lead author of the oceans chapter for the 2005 IPCC report on carbon capture and storage. He was a co-author of the 2010 US National Academy America's Climate Choices report, and participated in the UK Royal Society geoengineering panel in 2009 and ocean acidification panel in 2005. He was a lead author of the 2007 U.S. "State of the Carbon Cycle Report.

Caldeira was invited by the National Academy of Sciences Ocean Studies Board to deliver the 2007 Roger Revelle Lecture, "What Coral Reefs Are Dying to Tell Us About CO2 and Ocean Acidification." In 2010, Caldeira was elected Fellow of the American Geophysical Union.

From the early 1990s to 2005, Caldeira was with the Energy and Environment Directorate at the Lawrence Livermore National Laboratory where he was awarded the Edward Teller Fellowship (2004), the highest award given by that laboratory. Caldeira did post-doctoral research at Penn State University and in the Energy and Environment Directorate of Lawrence Livermore National Laboratory, Caldeira received his B.A. from Rutgers College and both his M.S. and Ph.D. in



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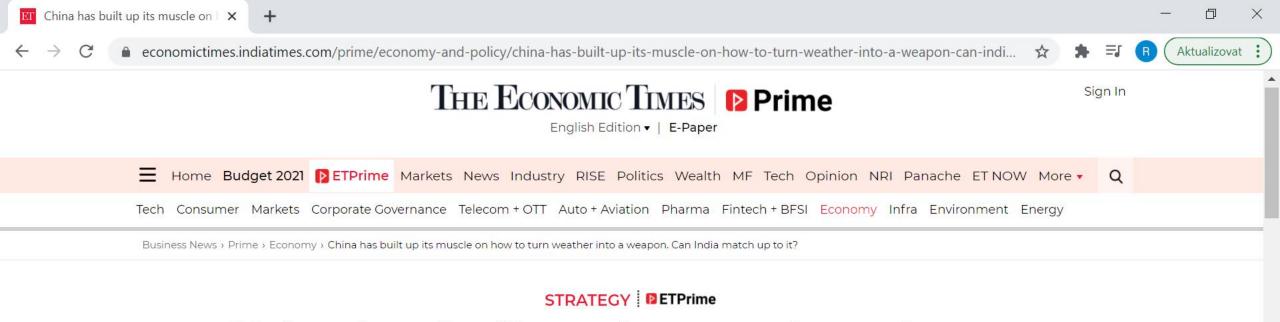




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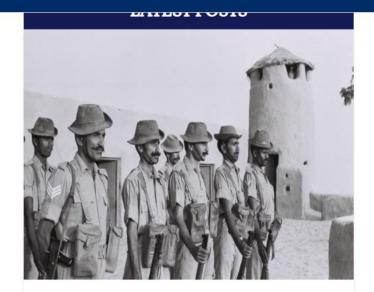


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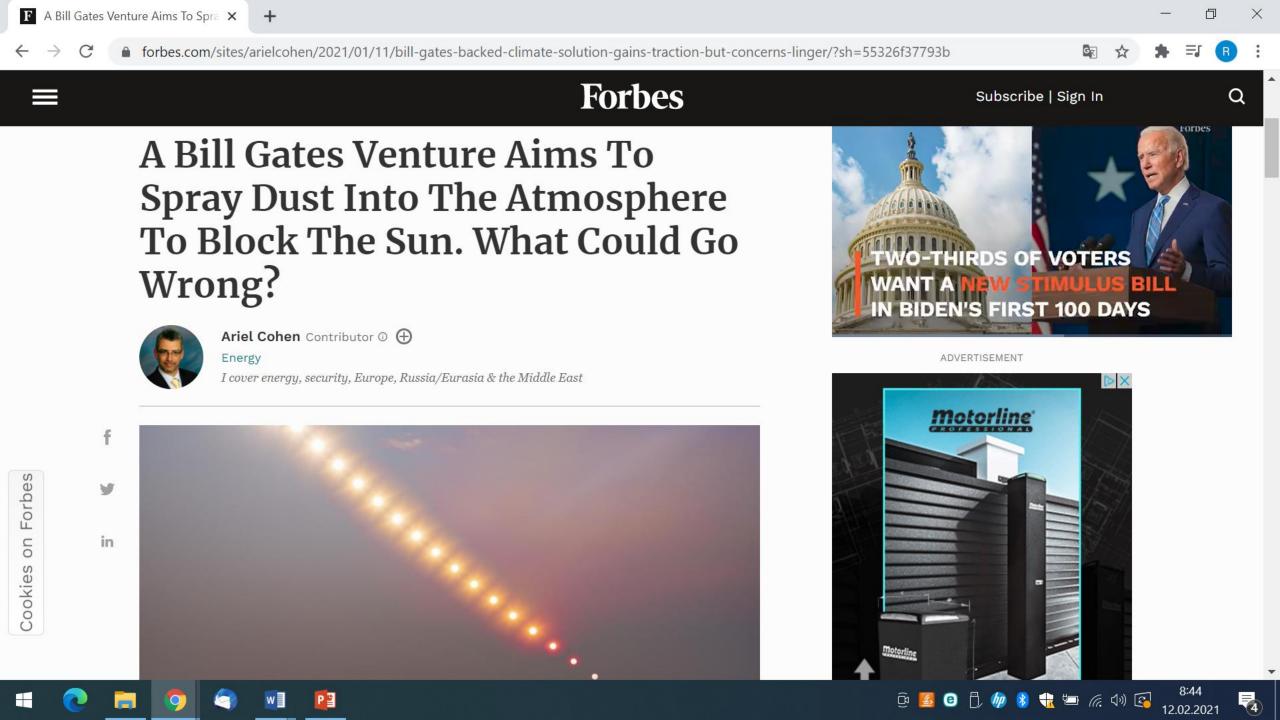
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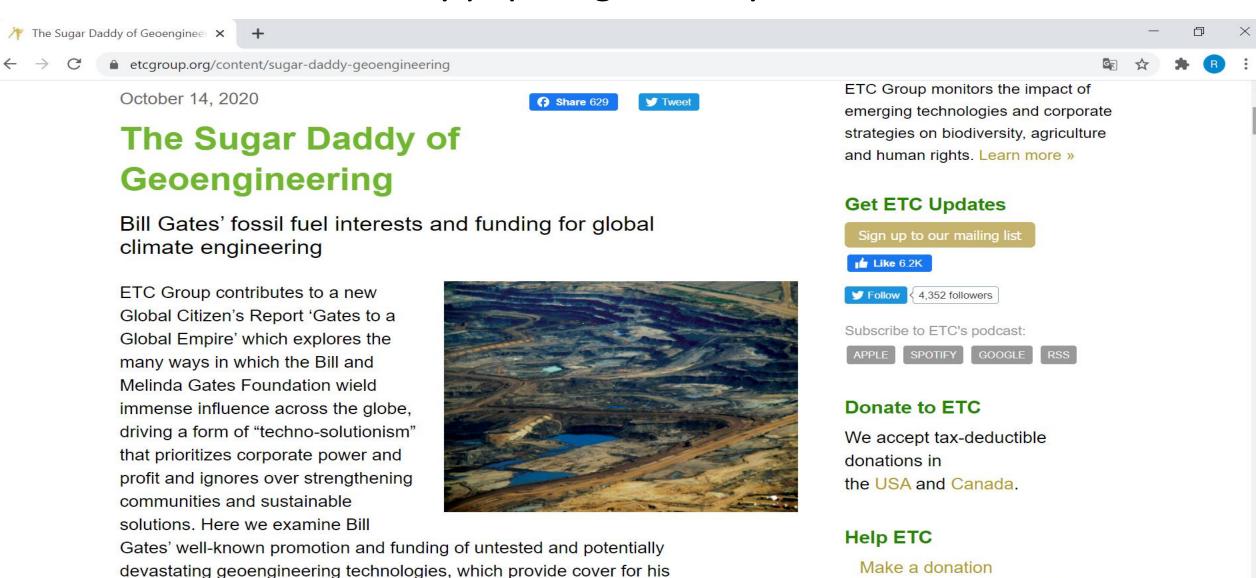


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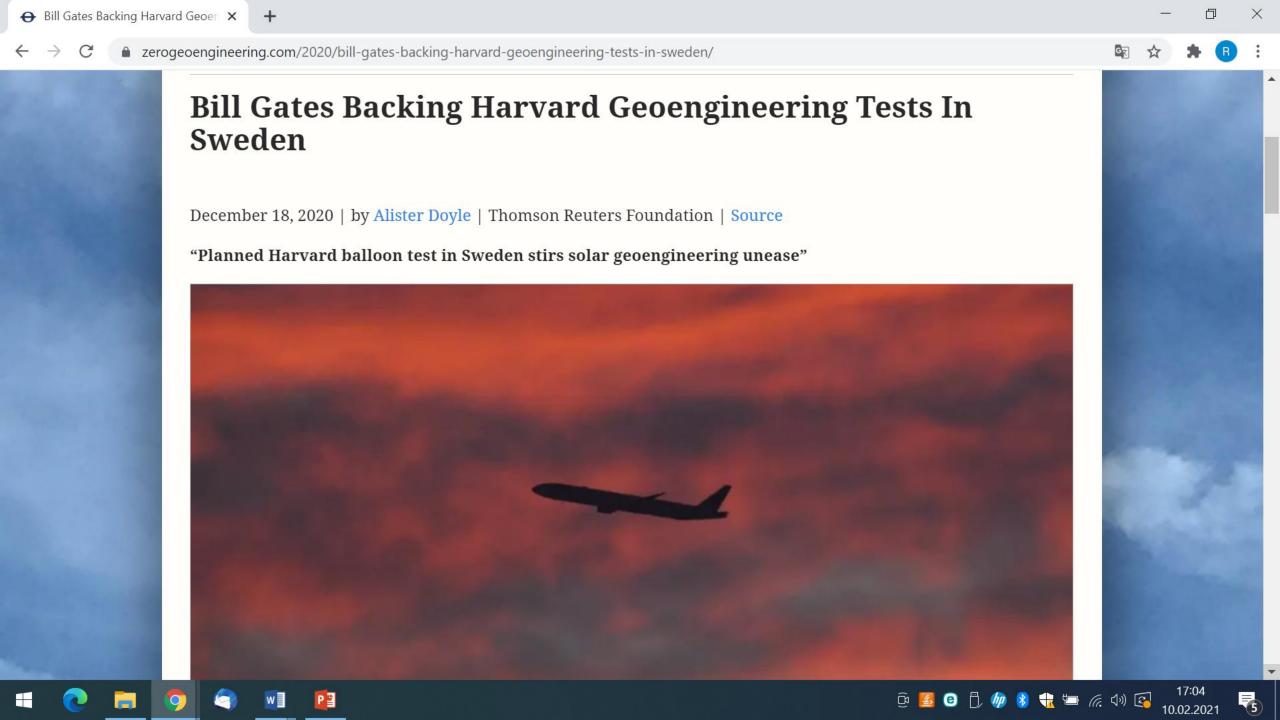
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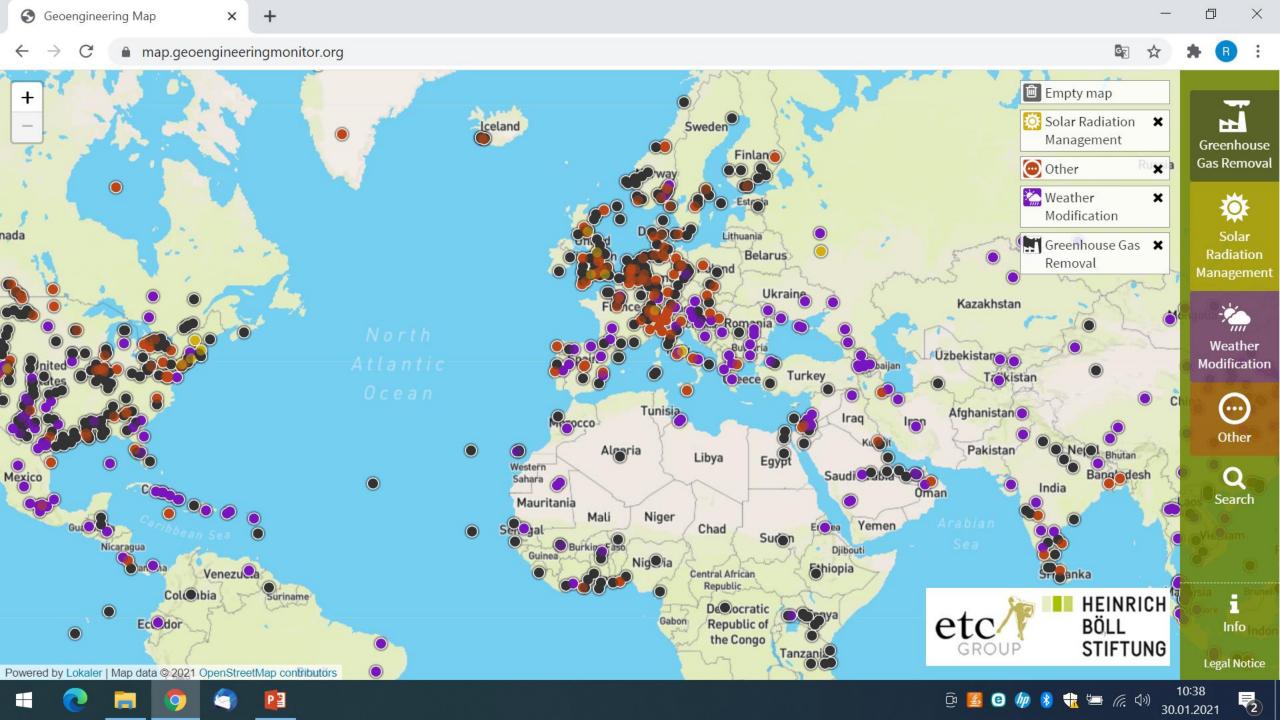


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A NA ZÁVĚR... IONOSFÉRICKÉ ZAŘÍZENÍ A MODERNÍ VYSÍLAČE (tzv. NEXRADS).... aneb zde končí všechna legrace

HAARP A VÝZKUM IONOSFÉRY









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(1) aktualizováno 24. června 2020

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Připravil Lukáš Visingr

Zkratka HAARP znamená High-frequency Active Auroral Research Program, tedy vysokofrekvenční aktivní polární výzkumný program. Oficálně se jedná o program výzkumu ionosféry, ale prakticky všechna známá fakta svědčí o tom, že HAARP je zbraň, nebo alespoň vojenské zařízení. Pravdou ovšem je, že ionosféry se docela jistě týká.

Ionosféra, tedy řídká část atmosféry ve výšce zhruba od 80 kilometrů nad povrchem, obsahuje velké množství nabitých částic (iontů) a kromě jiného umožňuje šíření různých rádiových signálů.

Základna HAARP se nachází na Aljašce v oblasti Gakona, což je necelých 150 mil severovýchodně od města Anchorage. Další, poněkud menší zařízení takového typu je v místě jménem Arecibo v Norsku, třetí je v Portoriku. Podle některých zdrojů jsou další na jižní polokouli (snad dokonce poblíž jižního pólu). Kromě toho je po celé Zemi rozmístěno několik desítek dalších atmosférických "hořáků" mnohem menších rozměrů.

Systém pokrývá plochu asi 13 hektarů a je tvořen 180 anténami (12 krát 15 řad), z nichž každá má dva dipólové přenašeče o výkonu 10 000 W. Celá soustava má tedy výkon 3,6 MW (3,6 miliónu wattů). Antény mají dvě kmitočtová nastavení, a to 2,8 až 7 MHz a 7 až 10 MHz. HAARP tedy vysílá elektromagnetické vlnění do ionosféry, přičemž využívá některé její charakteristiky. Ionosféra funguje především jako gigantická "anténa", pomocí níž lze signál zaměřit na kterékoli místo na Zemi. To ovšem není všechno. Za určitých meteorologických podmínek (ty se neustále mění, ale dají se předpovídat) lze ionoféře "ukrást" značné množství elektromagnetické energie, která je tam díky iontům rozmístěna v těžko představitelném množství. Pokud bude celý výkon HAARPu za vhodných podmínek zamířen na jediný bod oblohy, původní signál se zesílí až tisíckrát, což znamená výkon 3,6 GW, tedy 3,6 MILIARDY wattů. Abyste si udělali představu, tak je to zhruba dvojnásobek výkonu všech vodních elektráren v České republice dohromady.

Je třeba podotknout, že prakticky identický systém navrhoval počátkem 20. století geniální Nikola Tesla, ale v tehdejší době nenašel pro své progresivní názory příliš pochopení. Kořeny projektu HAARP sahají do roku 1983, kdy Bernard Eastlund, majitel ropné společnosti ARCO (Atlantic Richfield Oil Company), vzkřísil staré Teslovy teorie o řízené energii, získal patenty na jejich nové využití a přesvědčil americké ministerstvo obrany, aby se jimi zabývalo. Eastlund pak založil divizi APTI (ARCO Power Technologies Inc.), která od roku 1991 pracovala na HAARPu. První ostrý test proběhl v prosinci 1994 a od té doby je systém spouštěn nejméně jednou za měsíc.

Nabízí se samozřejmě otázka, k čemu může sloužit vlna s energií miliard wattů. Oficiální stanovisko mluví pouze o výzkumu atmosféry a vesmíru. Tomu ovšem věří jen málokdo. Objevila se řada teorií o skutečném poslání HAARPu; pominu-li nápady typu zbraně proti mimozemšťanům, pak lze uvažovat zhruba o následujících aplikacích, které jsem seřadil podle jejich pravděpodobnosti.

Odešlete zpětnou vazbu

Proč tato reklama? ▷











A Nezabezpečeno military.cz/usa/weapons/haarp/haarp.htm





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Aktualizovat

Zahorizontální radar...

Radiolokátory typu Over-The-Horizon již fungují řadu let, bohužel však stále vykazují tentýž zásadní problém. Jejich přesnost totiž klesá exponenciálně se vzdáleností, takže sice vidíte za obzor, ale skutečná pozice cílového objektu může být klidně o desítky kilometrů odlišná. Z tohoto důvodu je také zcela nemožné podle OTH radaru cokoli zaměřovat. Na druhou stranu, nespornou výhodou je možnost zachycení letounů STEALTH, alespoň tedy první generace. Například letoun F-117 je vytvořen tak, aby se od něj radarové vlny odrážely směrem vzhůru, a nikoli zpět k vysílači. Paprsek zahorizontálního radaru však letoun zasahuje shora, a odraz zpět nahoru je ta nejlepší možná varianta. Uvážíme-li obrovský výkon HAARPu, pak máme zřejmě co do činění s radarem, který může vytvořit klidně i radarovou "mapu" celé planety. Můj osobní názor na HAARP je ten, že se jedná o součást protiraketové obrany, přesněji řečeno detektor balistických střel.

...nebo ještě něco víc?

Někteří odborníci zastávají hypotézu, že obrovský výkon HAARPu by dokázal "protlačit" elektromagnetické vlny nejen vzduchem, ale i skrz vodu a dokonce i pevné látky. Nabízí se tak řada možností: komunikace s ponořenými ponorkami, "rentgenové" snímkování Země (šlo by o jakýsi gigantický tomograf), pátrání po podzemních úkrytech, ložiscích surovin či ponorkách. Často se mluví také o detekci aktivity jaderných zařízení, a to hlavic i reaktorů, případně o monitorování veškeré rádiové komunikace na Zemi.

Štít...

Už Nikola Tesla navrhoval vytvoření "elektromagnetického štítu", který by nepropustil žádné cizí těleso (rozuměj zbraň). Je známo, že vědci v SSSR se zabývali myšlenkou ničení balistických raket pomocí ionizace atmosféry, jejíž fyzikální vlastnosti se tímto pochopitelně okamžitě mění. Pokud by k něčemu takovému došlo v dráze letu rakety, následovaly by turbulence a poruchy aerodynamiky, které by při obrovské rychlosti rakety nevyhnutelně způsobily její zkázu. HAARP by tedy mohl vytvořit jakýsi protiraketový "deštník", jehož účinnost by byla stoprocentní.

...a meč

Výborně, a proč zůstávat u obrany? Co kdybychom nečekali s "deštníkem" na útok, ale namísto toho tím "deštníkem" nepřítele vzali po hlavě, aby k útoku vůbec nedošlo? :-) HAARP by mohl bez problémů fungovat jako emitor elektromagnetického impulsu, který by svým monstrózním výkonem doslova "usmažil" elektroniku jakékoli družice, zbraně či komunikačního prostředku.

Poručíme větru, dešti

Ovlivnění počasí je ve skutečnosti docela jednoduché. Přípravy takových systémů proběhly už v 50. letech; roku 1976 podpsalo přes 60 států dohodu o zákazu geofyzikálních zbraní, která ovšem platila na dobu určitou, a to 20 let. HAARP může ionizací či ohřevem atmosféry výrazně ovlivnit proudění vzduchu, a tak způsobit třeba bouřku, tornádo, extrémní vedra či mrazy. Například je možné kdekoli na světě vyvolat umělý blesk, mnohem silnější než kterýkoli přírodní; vždyť to dokázal zmíněný Nikola Tesla již na přelomu 19. a 20. století. Teoreticky by snad šlo (ale to už je hodně přitažené za vlasy) zasáhnout také podzemní vrstvy magmatu, a tak způsobit zemětřesení.

Kantrala magnatacfáry



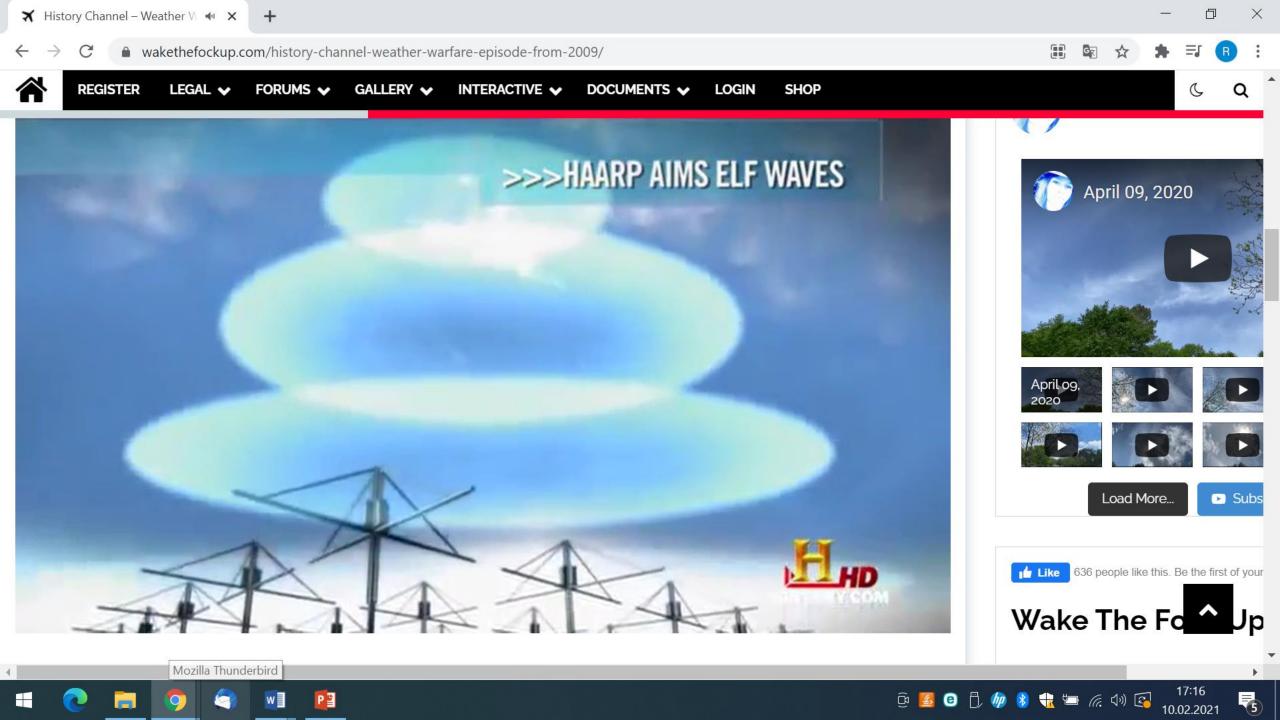




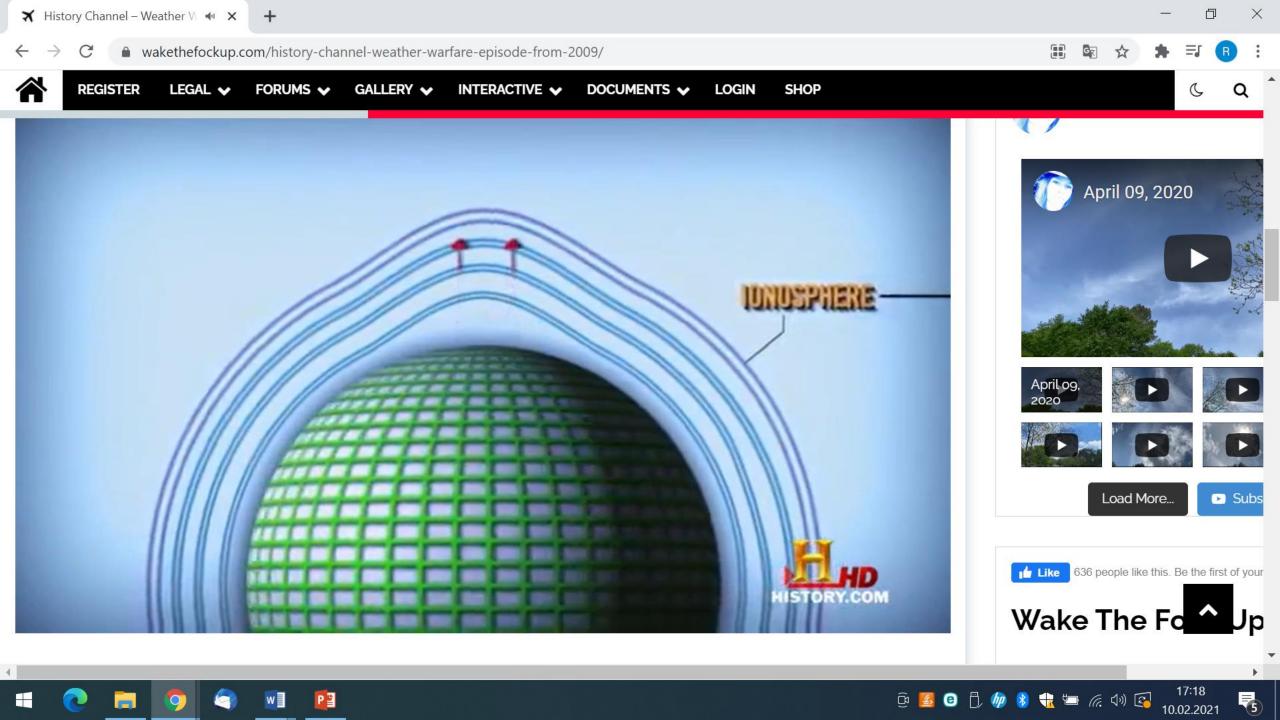




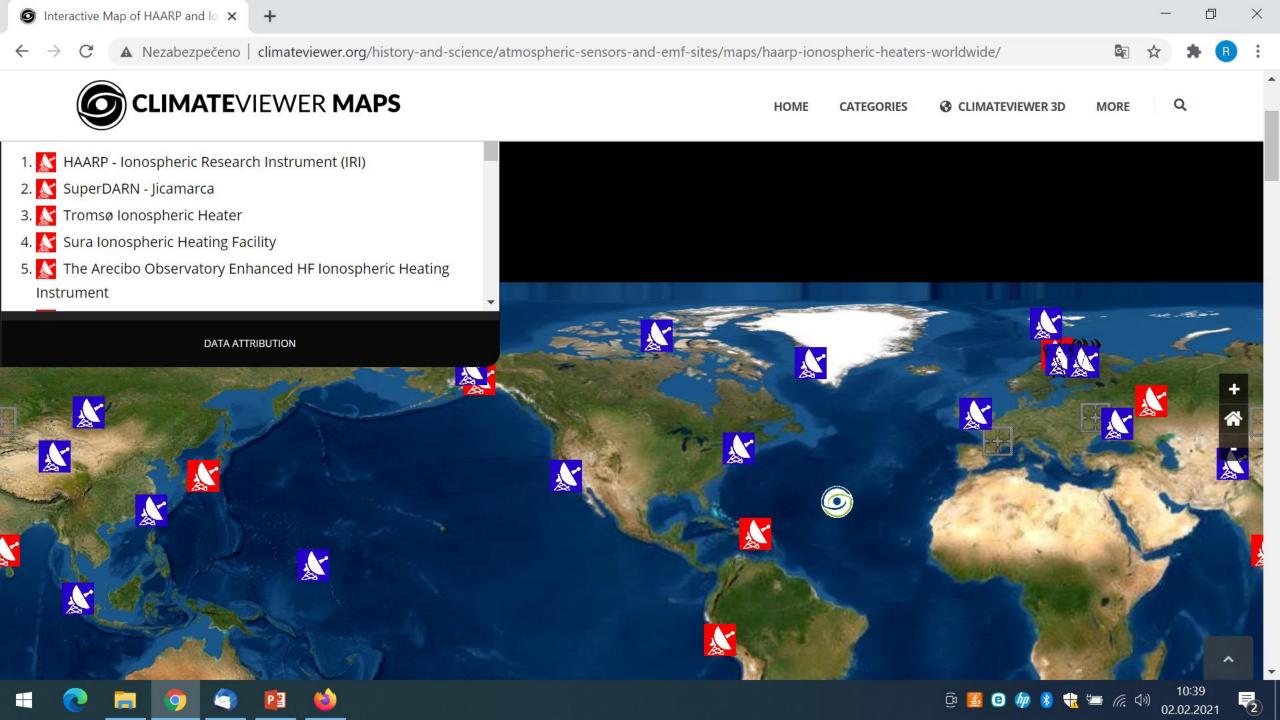


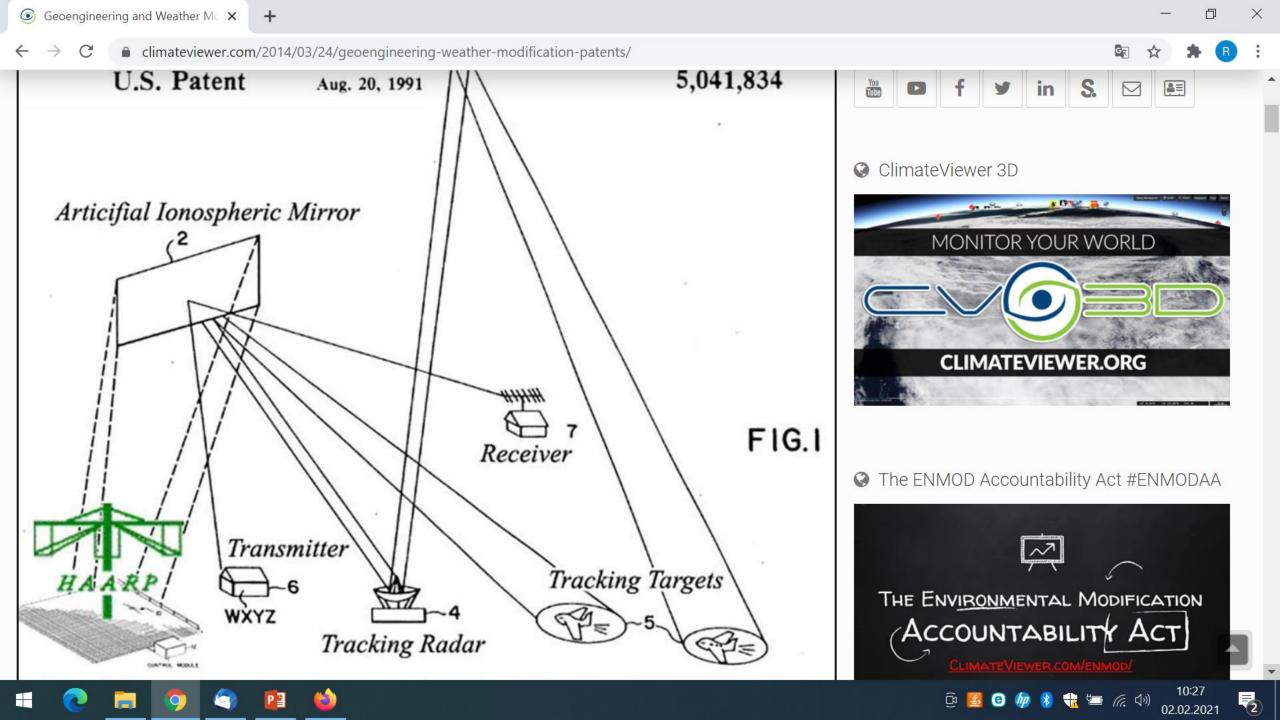




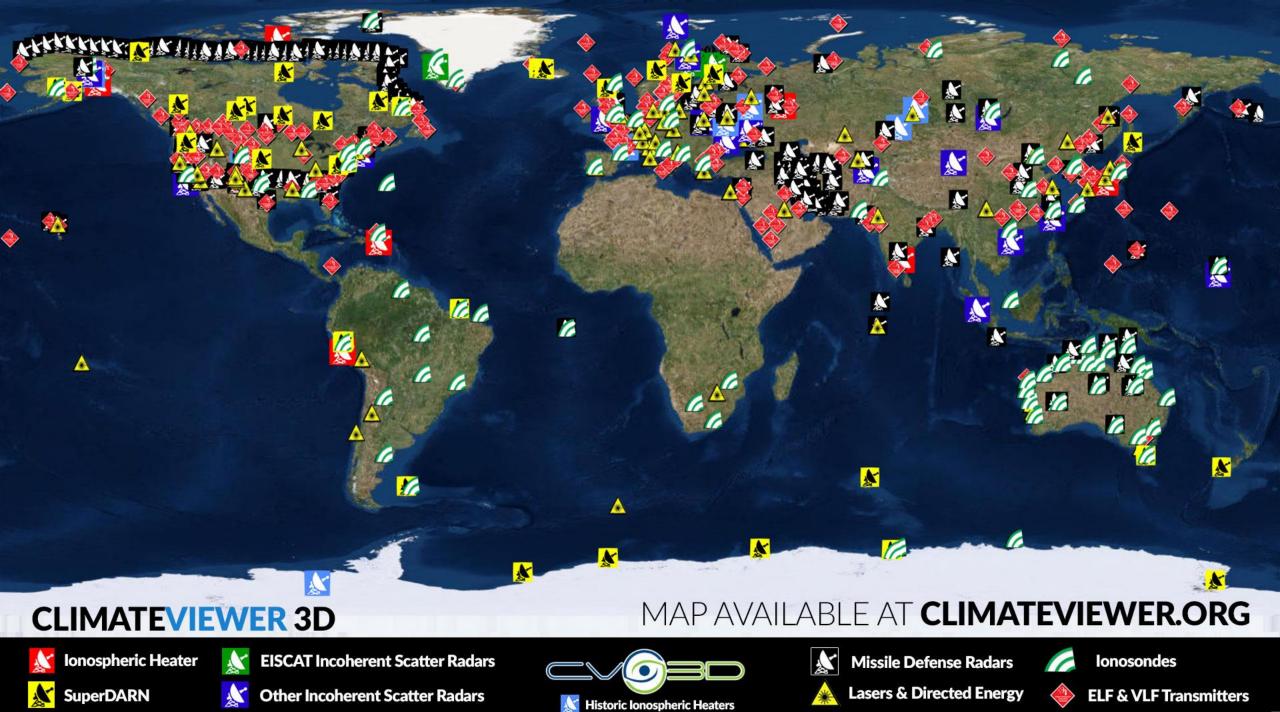




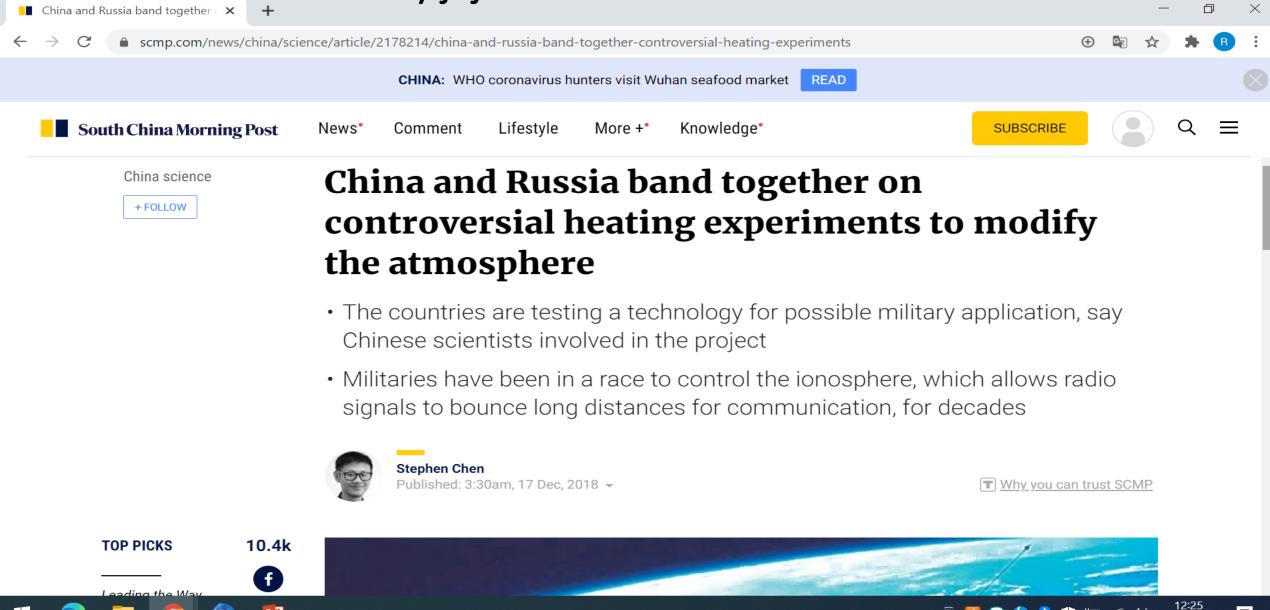




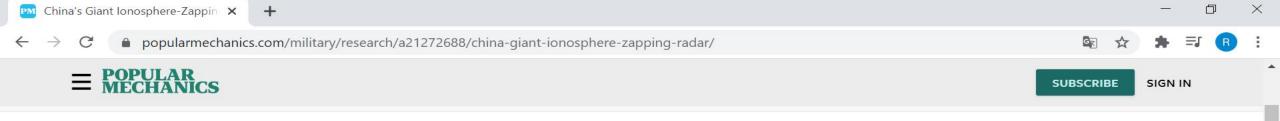




Čína a Rusko spolupracují na kontroverzním experimentu ovlivnění atmosféry jejím ohřevem



Rozsáhlý ionosférický radar (obrovské síly) v Číně je obranným systémem, který se schovává za vědu



China's Giant Ionosphere-Zapping Radar Is a Defense System Masquerading as Science

The new facility may target U.S. submarines in the South China Sea.







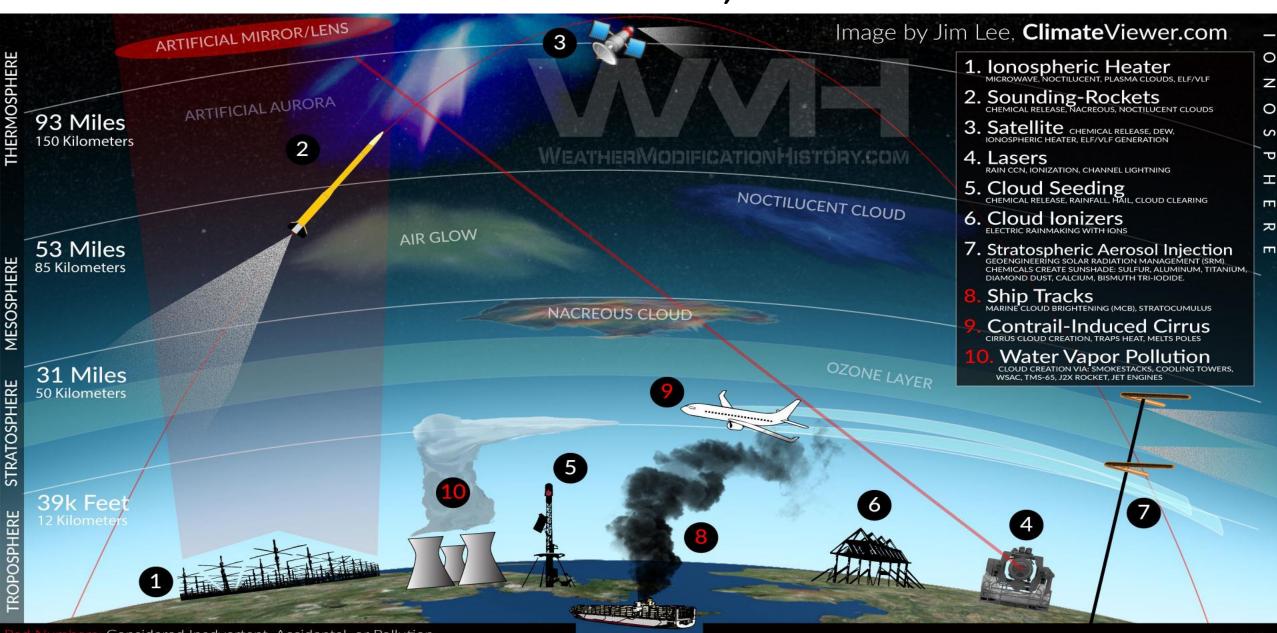








CO VŠECHNO OVLIVŇUJE POČASÍ, KLIMU A NEJEN TO



CHOVÁ SE TEDY JEŠTĚ VŮBEC POČASÍ A KLIMA PŘIROZENĚ?

