

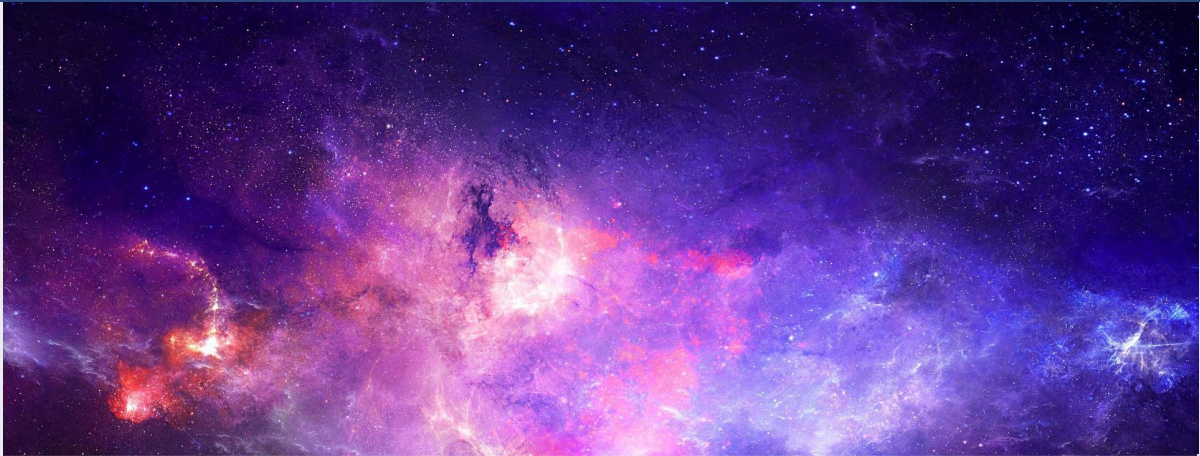
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Mayhem Science @mayheminthescience

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Gordon Wayne Watts Mayhem Science

July 7 at 7:33 AM

Jim, aka the May Hemsience guy, Hey, Jim, I would appreciate a statement from you regarding our need to upgrade the grid: [A] Do you agree with me on the need? (Of course you do! We discussed this before.) [B] What do you think lawmakers could do, assuming we get funding? Thx. BONUS - here's my published scientific paper on this matter to jog your memory: https://www.Academia.edu/40529432/WATTS_SolarFlarePAPER - and offer as a resource for readers/ listeners? You do come on Mayhem in the AM in about 25 minutes, but I eagerly look forward to your reply, in forum, here. [Your degree in Physics is even stronger than my A.S. Electronic Degree as Valedictorian from United Electronics Institute: Mine was only a 2-year degree.]



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WATTS SolarFlarePAPER

[Abstract is written mainly for fellow-scientists/researchers; Summary is more 'broad'.] In September 1859, the famous "Carrington Event" occurred (with estimated Dst readings of

4

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Mayhem Science Good morning Gordon, As you know, I couldn't agree more with you that we need to harden our grid. We have been lucky so far but we are very vulnerable. However, I have very little faith in our government and I don't think anything will be done until we have a massive solar flare/CME like the Carrington Event that knocks out our grid. It is human nature to not want to spend money to be prepared for something that may or may not happen. Look at how our gov't treats our transportation infrastructure. The gov't constantly waits until it's too late to expand or build new roads. Heck, we have thousands of bridges that are 90 years old and no plan or money saved up to replace them. Politicians keep spending the entire budget on pet projects and kicking the can down the road (pun intended). It's a hard sell to tell the public that we will need to raise taxes to protect us from something that they don't remember happening in their lifetime. I hope things change though! Also, I enjoyed your paper. Very thorough. It must have taken hours of research.

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Gordon Wayne Watts Thank you for your kind words, Jim! Indeed, my published scientific paper (which I plan on sending to lawmakers soon) took about a month of solid work. However, if you look closely, you'll notice that three (3) "Carrington-class" events occurred in recent times:

1.) The infamous solar storm of March 1989 inflicted major damage to Quebec, Canada's power grid, causing a 9-hour blackout when transformers were overloaded and failed, leaving more than 6 million Canadians without power, and crashing computer hard-drives later that year (August 1989), resulting in halted trading in the Toronto stock market. In fact, astronauts aboard the space shuttle Atlantis, during this solar storm, in October 1989 reported burning in their eyes as highly-charged solar particles hit them.

2.) Another solar storm hit Canada, as well as the northeast United States, in August 2003, causing wide-spread blackouts, this time jamming the short-wave radio frequencies used by commercial pilots, prompting contemporary observers to speculate that the Kremlin was jamming radio signals. "In space, some satellites actually tumbled out of control for several hours," NASA said.

3.) More recently, the "Solar Storm of 2012," documented to have been even larger than the largest previous solar storm in recorded history, almost made a "direct hit" on earth, narrowly missing only because earth had moved about nine (9) days [about 2.46% of earth's 365¼-day orbit] in solar orbit from its trajectory.

As earth's 'magnetic north pole' accelerates its erratic movement, earth's protective magnetic field has begun to speed up its collapse, which would leave us completely vulnerable to another solar flare event.

You are right, Jim, that both politicians AND citizens have probably forgotten all 3 of these catastrophic disasters-- but they're big enough, scary enough, & recent enough to document that I think we can convince lawmakers, the President, and news media to act if we politely but firmly demand lawmakers grant Trump's request for grid upgrades, in his recent EO (Executive Order), cited in my published paper:

[Important caveat: I made only ONE typo in my paper: here. The link in my paper used long dashes due to a copy/edit clean-up gone awry. The CORRECT link is below.]

"Trump Acts on Critical Infrastructure Resiliency Against EMP Threats," by Sonal Patel, POWER, 26 March 2019

<https://www.PowerMag.com/trump-acts-on-critical...> Small 'Fair Use'

Quote: "President Trump has signed an executive order (EO) to boost coordination for and national resilience against electromagnetic pulse (EMP) threats—both from nuclear warfare and natural events like solar superstorms. The action suggests new federal mandates to protect critical infrastructure against EMP events and attacks may be on the horizon...Industry and academia have warned for years—and the DHS has internally recognized that—EMP events, and especially high-altitude EMP (HEMP) events resulting from detonation of a nuclear device, could severely damage critical electrical infrastructure...If the E3 pulse is high enough and long enough, it can result in grid collapse and potentially damage transformers, experts warn. [] Solar weather events of sufficient intensity can cause E3-type electromagnetic impacts. In 1989, for example, a geomagnetic disturbance (GMD) caused a regional grid collapse within 92 seconds in the Hydro-Quebec power system that left six million customers without power for up to nine hours. The threat of GMDs has been played up with good reason: Space weather researchers currently estimate a 6% to 12% chance that a Carrington-class storm—a solar storm comparable in size to the largest on record—is likely to hit the earth within the next 10 years."

Cited here:

https://www.Academia.edu/40529432/WATTS_SolarFlarePAPER

If we explain to lawmakers and their dedicated and polite phone staff that "911," Internet, and Electric Power could go out and leave them stranded, our arguments might be persuasive. What do you think?

Can we handle it ourselves, or is it time to invoke our treaty with



Real Wizardy



PACA Solar System O...



Nature Medicine



English (US) · Español · Português (Brasil) · Français (France) · Deutsch



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the Klingons, Greys, Vulcans, and Jedi-- to ask for additional persuasive scientific experts to testify before Congress, the U.N., and U.F.P. (United Federation of Planets)? We wouldn't want to create an interstellar incident, now would we? (Or is it an "intergalactic incident?" Translation from Klingon to English is still hard.)

All Star Trek (Star Wars, UFO) humour aside, he heh, in all seriousness, here is my conclusion:

**** CONCLUSION ****

- 1) We need to upgrade the power, communications, satellite, & infrastructure grids.
- 2) This is only possible if we make much-needed spending cuts to Pork Barrel waste spending.
- 3) The "key" area of pork is Student Debt: The U.S. Debt, now north of \$20 or \$22 TRILLION, has about Two (\$2,000,000,000,000.00) Trillion student Debt -- i.e., almost ten (10%) percent.

Note: A trillion is a MILLION millions = a little dough.

4) The only "hammer" strong enough to convince lawmakers to lower loan limits on student loans using our taxpayer dollars sufficient to "send a message" to banks and colleges to stop lobbying for THIS PORK WASTE is probably passage of H.R.2648 and S.1414, student loan bankruptcy bills. (In fact, forgiveness of ALL student loans, as one friend's petition closing in on HALF A MILLION SIGNATURES here asks <https://www.Change.org/.../covid-19-economic-response...> would cost almost NO taxpayer dollars and add almost NOTHING to U.S. Debt -- as almost all Student Loans are OWNED, not guaranteed, but the taxpayer dollars via the Dept of Ed.)

Either bankruptcy defense or outright forgiveness would use FREE MARKET pressures to scare lenders (the Dept of Ed using tax\$\$) to STOP loaning obscenely high amounts-- thus forcing spending cuts sufficient to help us afford the upgrades).

I am Conservative as indicated here <https://www.Change.org/.../u-s-senators-we-can-t-address...> and don't "personally" support total forgiveness-- wanting to pay a fair amount for my college-- but I must admit these so-called Liberal relief packages would be effective to forcing needed spending cuts.

Contrary to lawmakers' constant complaints, neither returning bankruptcy to student loans (like it was decades ago) or outright loan cancellation would cost much, as they own these toxic loans -- not guarantee. (A little-known clause in the ACA bought said loans, so we no longer guarantee any current student loans.)

The only other area where we might make "big time" cuts is foreign entanglements, but President Trump is limited on how much we can reduce our foreign military intervention and precense abroad.

I feel that if lawmakers follow my 4-point plan above, we might be able to make these needed grid upgrades. If not, then we'll see all the scary stuff about weather catastrophic disasters described in Jesus's discourse in Matthew 24, Mark 13, Luke 21, and the book of Revelation. It's gonna happen (Jesus predicted it!), but I say let's stall the inevitable by a generation or two by polite but firm calls to Federal Lawmakers to follow my 4-step plan. What so you think?



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Write a reply... [emojis]

Write a comment... [emojis]



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Mayhem Science

July 9 at 7:55 PM · 🌐



TOMORROW AT 12 PM

SpaceX Falcon 9 - Anasis-II

SLC 40 - SpaceX Launch Facility · Merritt Island, FL

📅 Other · 567 people

★ Interested



1



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Mayhem Science

July 8 at 8:04 AM · 🌐

All systems are go and the Weather is looking better than yesterday. The current prediction is 60% Go at the 11:59 am launch time.




 @SpaceCoastSteve
 @spacecoast_stve

Pressing For Flight ▶ SpaceX Falcon 9 - Starlink + BlackSky

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July 7 at 11:29 PM · 🌐

The storms finally gave way so we could complete remote setup. Falcon 9 looks as beautiful as ever.

This Starlink flight is the 5th for booster B1051, which previously lifted Crew Dragon for DM-1, RADARSAT, and 2 other Starlink missions.

Here's to another successful landing!

 4

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Mayhem Science Here is the live link from SpaceX:
https://m.facebook.com/story.php?story_fbid=719291095581823&id=304007206796063

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Author

Mayhem Science I'm hearing unconfirmed rumors that the launch is scrubbed.

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Mayhem Science

July 5 at 12:50 PM · 🌐



SAT, JUL 25 AT 7:19 PM

SpaceX Falcon 9 - Saocom 1B

SLC-40, Cape Canaveral Air Force Station, Florida

📅 Other · 5,242 people

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Mayhem Science

July 3 at 1:33 PM · 🌐



THU, JUL 30 AT 9:30 AM

NASA's Mars Perseverance Rover Launch

Cape Canaveral Air Force Station · Orsino, FL

📅 Other · 1,922 people

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3

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Mayhem Science
June 30 at 3:59 PM · 🌐

Here is a live feed.



444,968 Views

FOX 13 News - Tampa Bay was live.
June 30 at 3:57 PM · 🌐

On Tuesday, SpaceX launched a new U.S. Space Force GPS satellite into orbit atop a Falcon 9 from Cape Canaveral: <https://bit.ly/2Bs9mKl>

Video courtesy SpaceX.

Watch together with friends or with a group Start

Aldon Samaha and 1 other 1 Comment

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Write a comment...

Aldon Samaha Thanks Jim for the great video of this launch and the unbelievable landing of the 1st stage on the ship. We had to wait 60 years to see this kind of landing since the science fiction movies depicted that sort of thing. (What took so long?)

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Mayhem Science
June 24 at 11:52 AM · 🌐

The weather prediction is only 40% go for launch but as you know, it's Florida, anything can happen.



WED, JUL 8

SpaceX - Starlink L9 / BlackSky Global 5 & 6

★ Interested

Online Event

Networking · 20,783 people

3

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Mayhem Science Friday's launch Scrubbed due to technical issue. Ill let you know when they set a new window.

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Author
Mayhem Science Delayed until Friday 4:18 pm.

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