

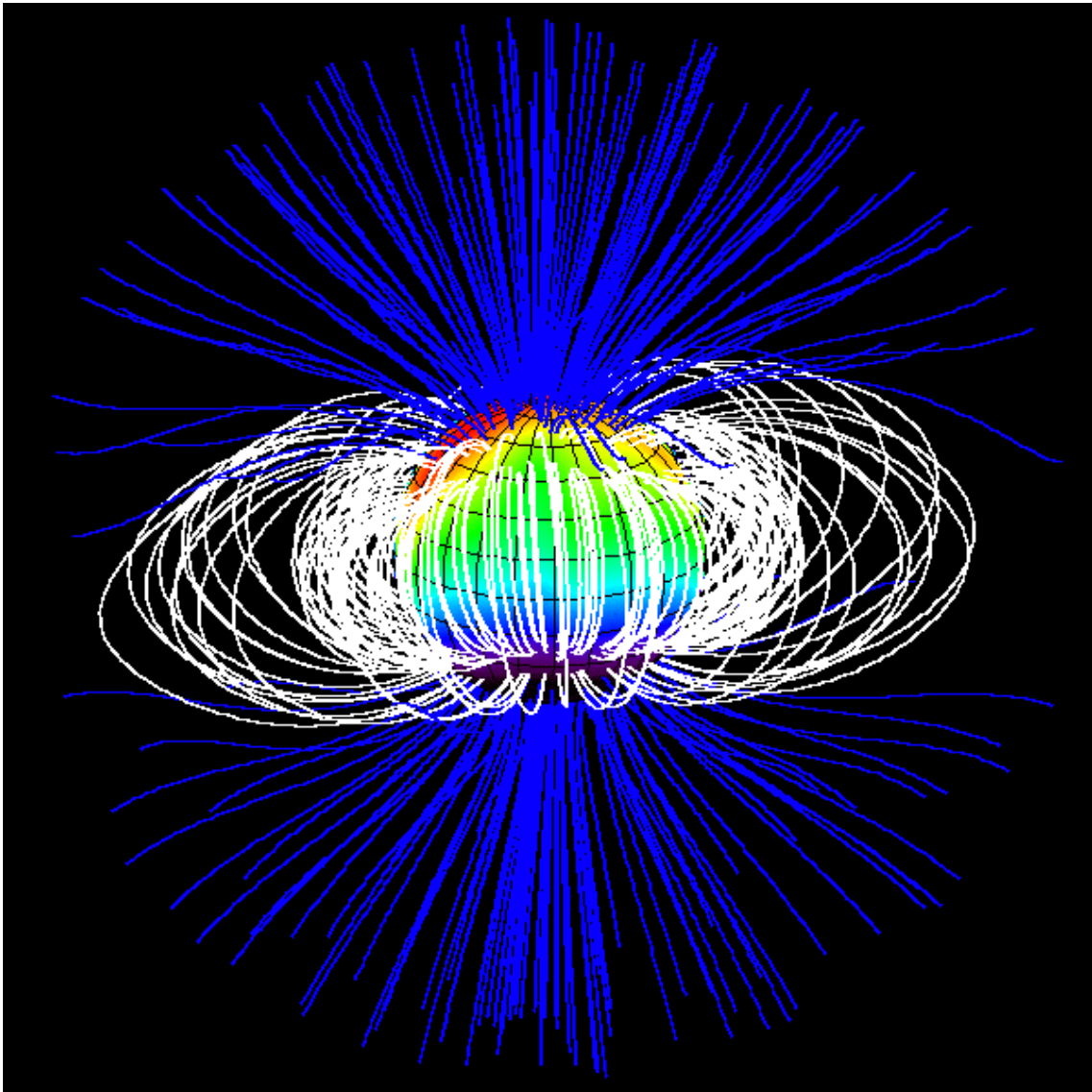
Unprecedented Floods in Australia, Winter Lightning in Europe



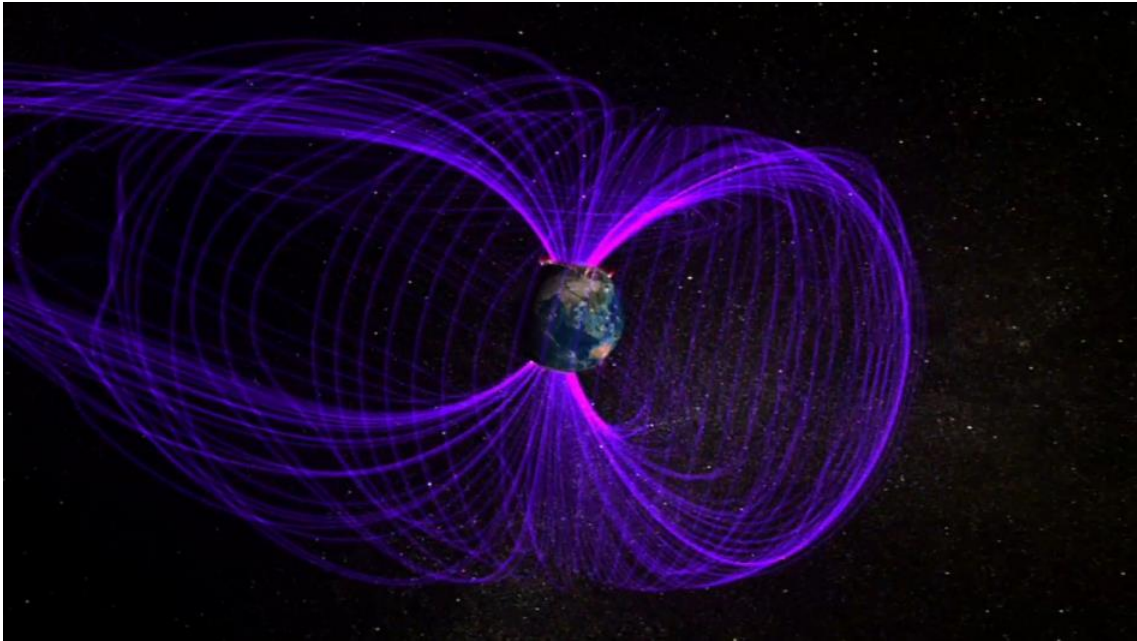
Happy New Year, to everyone who's celebrating the Year of the Pig! It's the Chinese New Year, 2019.



Earth's magnetic field is weakening due to the decreasing activity state of our Sun. This has severe repercussions on the way our jet streams flow and the amount of galactic cosmic rays that can penetrate our atmosphere causing even more cloud cover. The image below shows the Earth's magnetosphere / magnetic field lines surrounding our planet.



So when we talk about the magnetic field of the Earth or its magnetosphere, here's a representation of what you're looking at.



And as we descend into the Grand Solar Minimum, this is expected to weaken further, causing atmospheric anomalies because the jet streams are not locked in place as they were before so you now see jet streams moving to different locations around the globe.

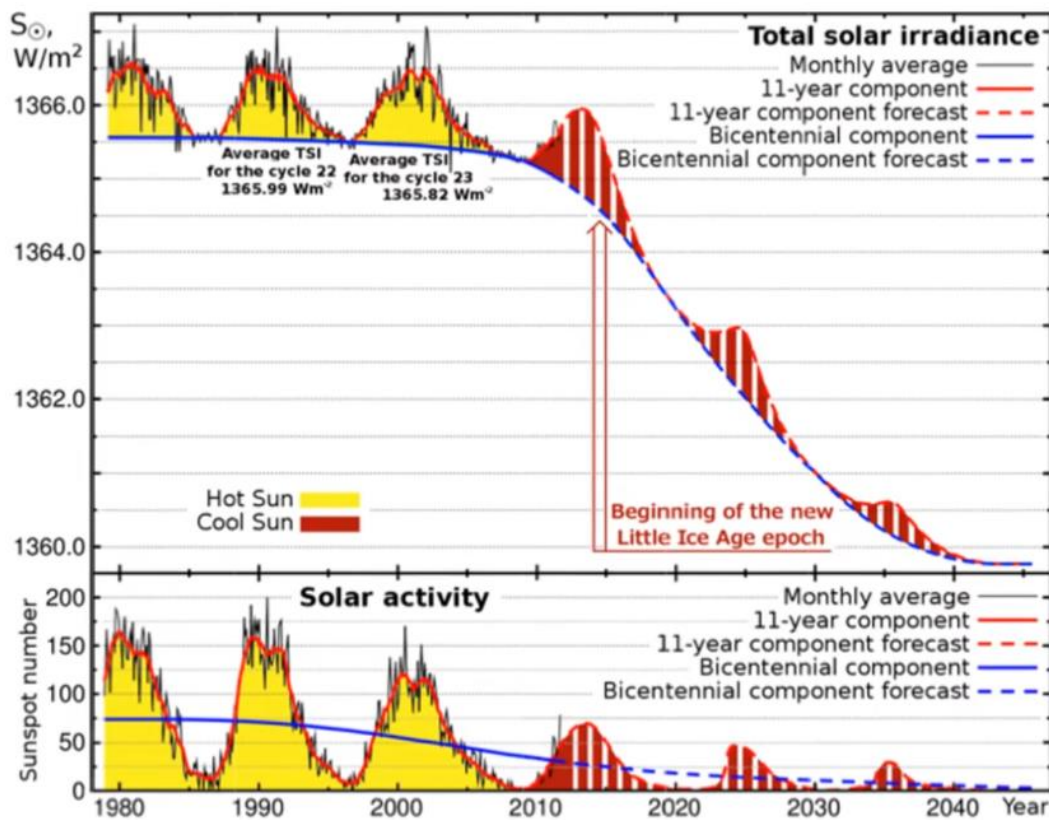
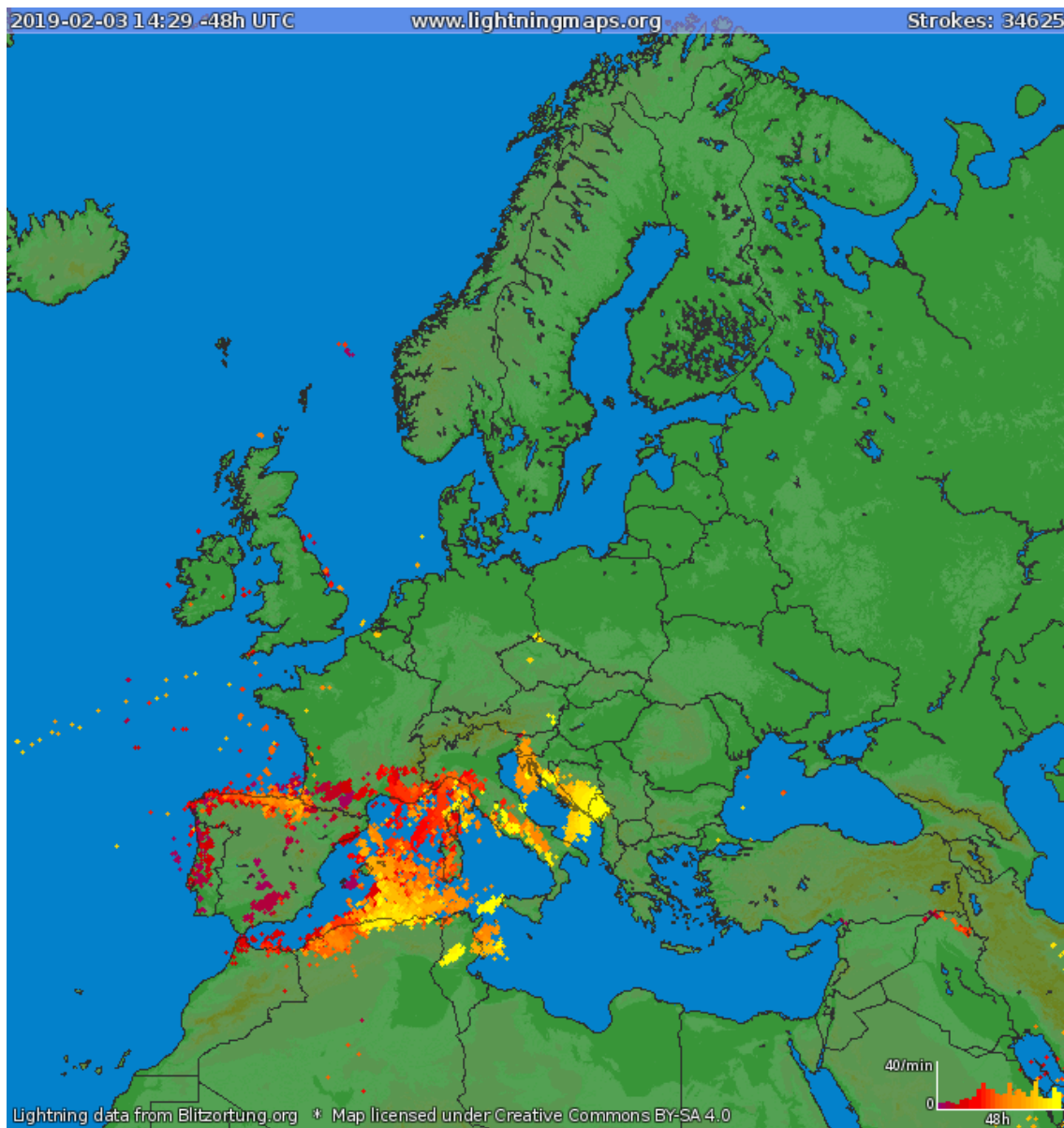
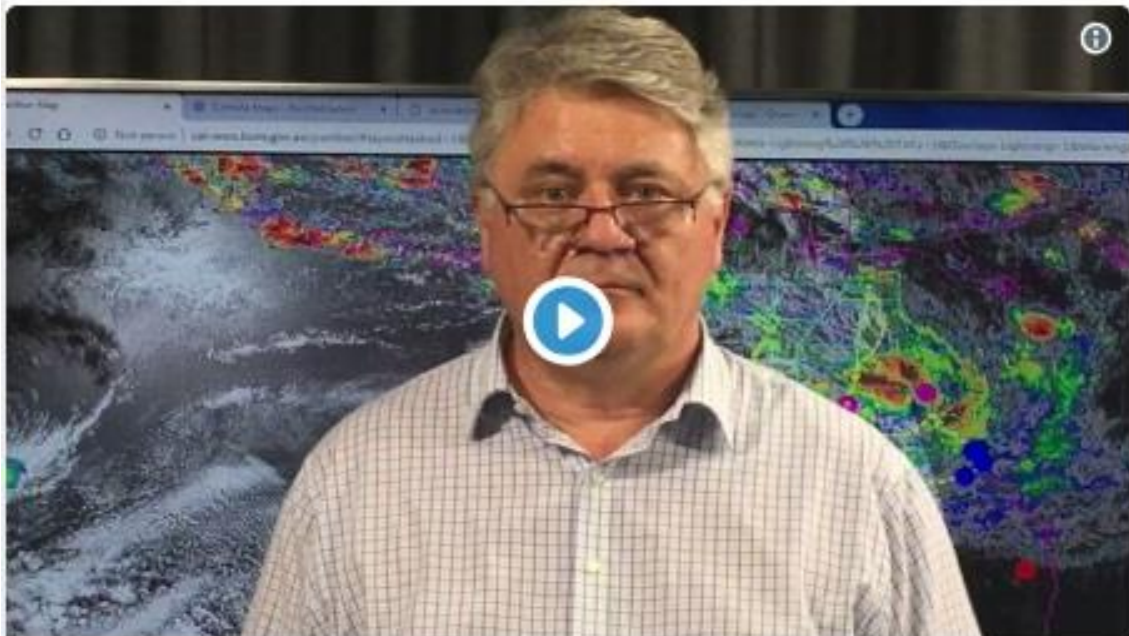


Figure 3. Variations of both the TSI and solar activity in 1978-2011 and a forecast of their variations in cycles 24-26 (up to the year 2045)

Speaking of atmospheric anomalies, more than 30,000 lightning strikes hit northern Africa, Spain, Italy and Croatia during winter. If this occurred during springtime, it's understandable, but at the beginning of February and the middle of winter, it's not.



By the way, where have we seen those words such as “unprecedented” and “historical event” before, oh yea, during the super freeze in the United States and Canada with temperatures as low as -50F in the USA. Now here we are again, the same lexicon being used by the Bureau of Meteorology in Queensland, Australia during the flooding situation that occurred in Townsville and in Cairns. It was predicted that this would have high velocity flows with “unprecedented” areas of flooding



Bureau of Meteorology, Queensland ✓
@BOM_Qld



⚠️ Dangerous & high velocity flows will occur in the #RossRiver tonight & into Monday. **Unprecedented areas of flooding** will occur in Townsville. Expect access routes to be cut. Conditions will change rapidly & continuously. Listen to emergency services. #IfItsFloodedForgetIt

♡ 127 6:07 PM - Feb 3, 2019

Historic flooding continues! This is also going to continue to increase in intensity through Queensland over the following week. New rain record for Cairns that had 499% of their normal rainfall for the month, this means, they had five times of their normal rainfall.



AccuWeather

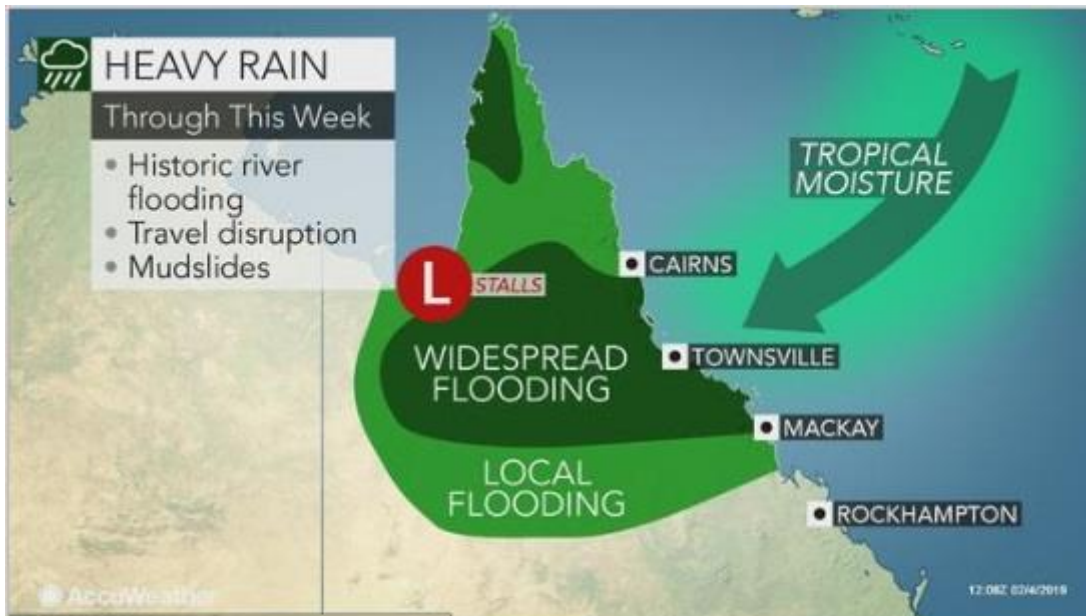
By Faith Eherts,
By Adam Douy,

Australia: Historic flooding to continue, worsen across Queensland this week

In northern Queensland last week, Cairns recorded a daily rainfall of 277 mm (10.91 inches). This is the most rain the city has had in a single day in more than a decade. Cairns ended January with 499 percent of their normal rainfall for the month, with 523 mm (20.81 inches) falling during the last 8 days of the month.



It is incredibly interesting that they had that much rainfall coming down there. I bet a jet stream is in the wrong place which is pushing the moisture. It generally doesn't bunch up this much in the atmosphere, but here it is, tropical moisture is being pushed south of the Equator. This once-in-a-100 year flooding event prompts Queensland to evacuate as more rain will come this week.

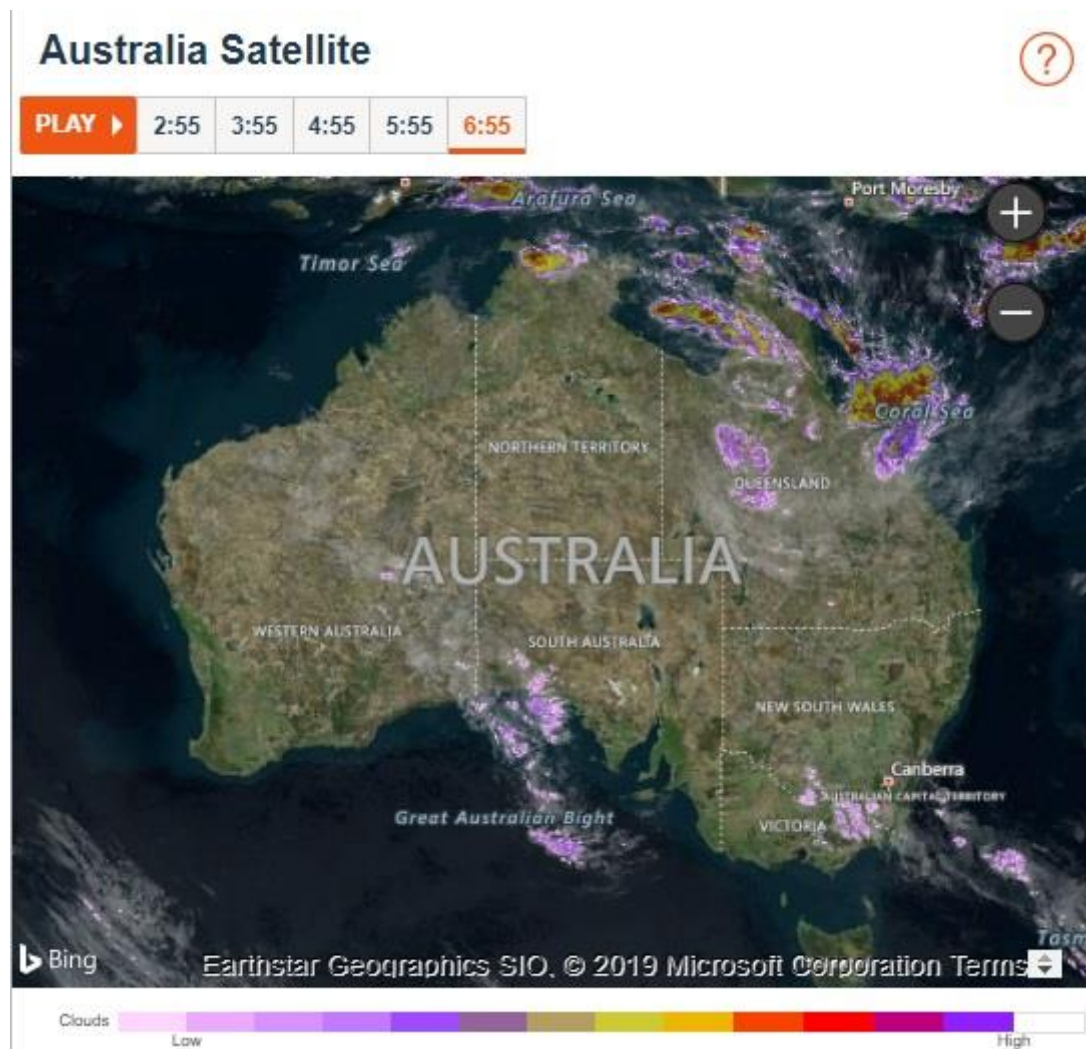


Once-in-100-year flooding prompts Queensland evacuations and rescues, more rain to fall this week

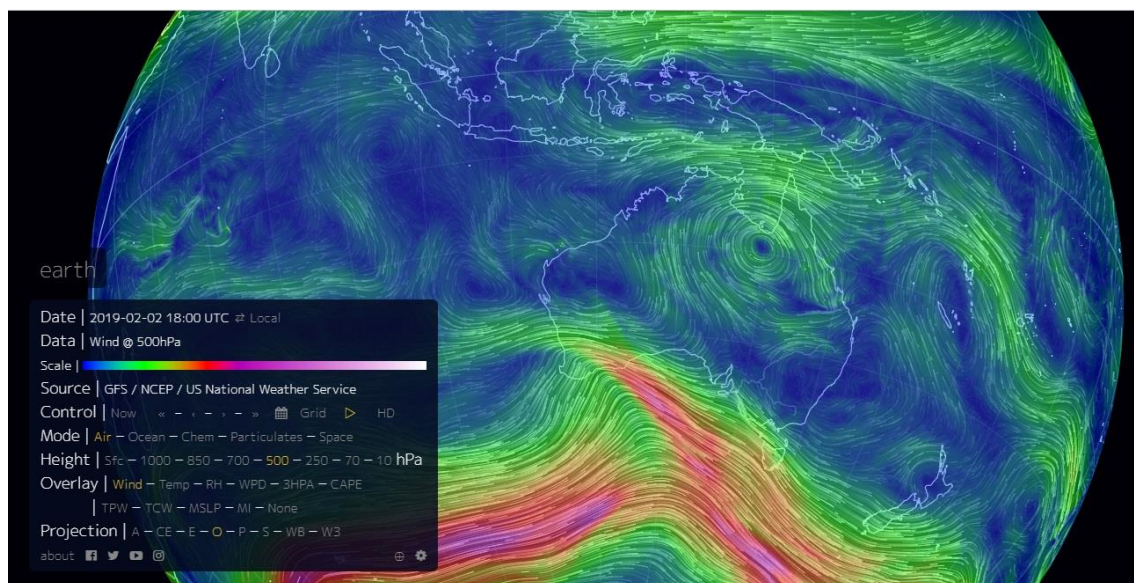
February 04, 2019, 10:21:16 AM EST

Record-setting rainfall in recent days has led to widespread flooding, landslips, road closures and evacuations across Queensland.

We've seen this again over the last couple of years in Outback Uluru, also known as Ayers Rock. Waterfalls came off of that record rains from the desert last year. Now Australia gets it again, but in a different location, this time, in North East Queensland, north of Cannes. This graphic below shows the moisture bands. This is the Australian satellite feed off of Earthstar.



Jumping over to **Nullschool**, you can also see the vortex spinning over that same exact area. The jet streams could be seen coming up from Antarctica, pushing a cold front through Australia.



Historic flooding is to continue: The Daintree River gained an all-time record height of over 41 feet. Then the next paragraph says: The heaviest rain since shifted a little further south into Townsville with over 20 inches of rain. And I thought, how much is 20 inches in their yearly total?



By Faith Eherts,
By Adam Douty,

Australia: Historic flooding to continue, worsen across Queensland this week

North of Cairns, the Daintree River reached an **all-time record height** last weekend with a peak of 12.6 meters (41.3 feet) on Saturday night, according to **The Guardian**.

The heaviest rain has since shifted farther to the south into Townsville where 20.35 inches of rain has fallen since January 27.

It turned out, this is half of their yearly total. January usually picks up around 9 inches which is double the average, but then the annual rainfall over there on the far-right is a little bit more than 40 inches. This area received half of the yearly total rainfall in just a few days. This is not normal. This is another indication that the Grand Solar Minimum is intensifying due to the weakening magnetosphere, allowing the jet streams to move out of their normal flows.



Rainfall/ Precipitation in Townsville, Queensland, Australia

- Townsville, Queensland averages an average of 1036.4 mm (40.8 in) of rainfall per year, or 86.4 mm (3.4 in) per month.

Precipitation Table

	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Annual
Average Precipitation mm (in)	10.7 (0.4)	13.7 (0.5)	10.4 (0.4)	25.2 (1)	54.7 (2.2)	147.8 (5.8)	243.8 (9.6)	232 (9.1)	176.3 (6.9)	60.8 (2.4)	40.5 (1.6)	20.5 (0.8)	1036.4 (40.8)

Townsville has been declared a disaster zone.



The flooding was so intense that individuals were making animal rescues. You have to realize, kangaroos are really fast animals, but they were unable to outrun these floods. We saw the same thing happened with the cockatoos earlier in the year due to hail storms. They were also unable to outrun preceding weather fronts, but animals and birds are really good at picking up the electrical activity preceding the front, but were unable to escape the pounding of almost record sized hail. Here we are again with the same thing: Animal life was not able to cope with the massiveness and rapidness of the onset.



Mary O'Donnell @JOd1953 · Feb 2
Rescuing our wildlife during **floods** in **Australia**..



Even crocodiles and snakes are now taking refuge in trees! You have to consider that, when crocodiles are getting out of the water, because there's too much water, maybe it is indeed, “unprecedented”.



STAYWELLWORLD @staywellworld · 19h
#HealthNewsFlash: 20,000 homes feared lost in **Australia floods** as crocodiles, snakes wash up.... #STAYWELLWORLD



This is an aerial view of Townsville. It gives a good indication of where the center of the river is, and how far is it flowing out of its banks.

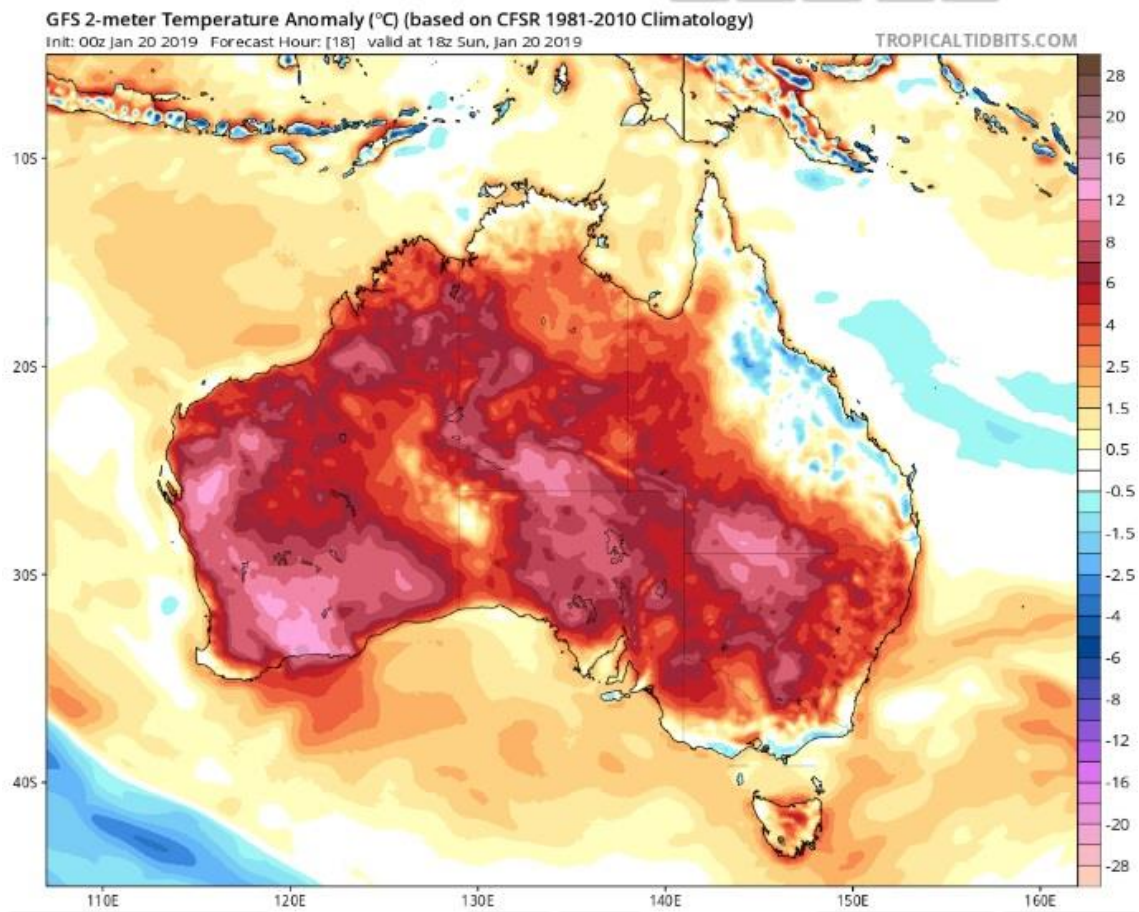


AFP news agency @AFP · 14h

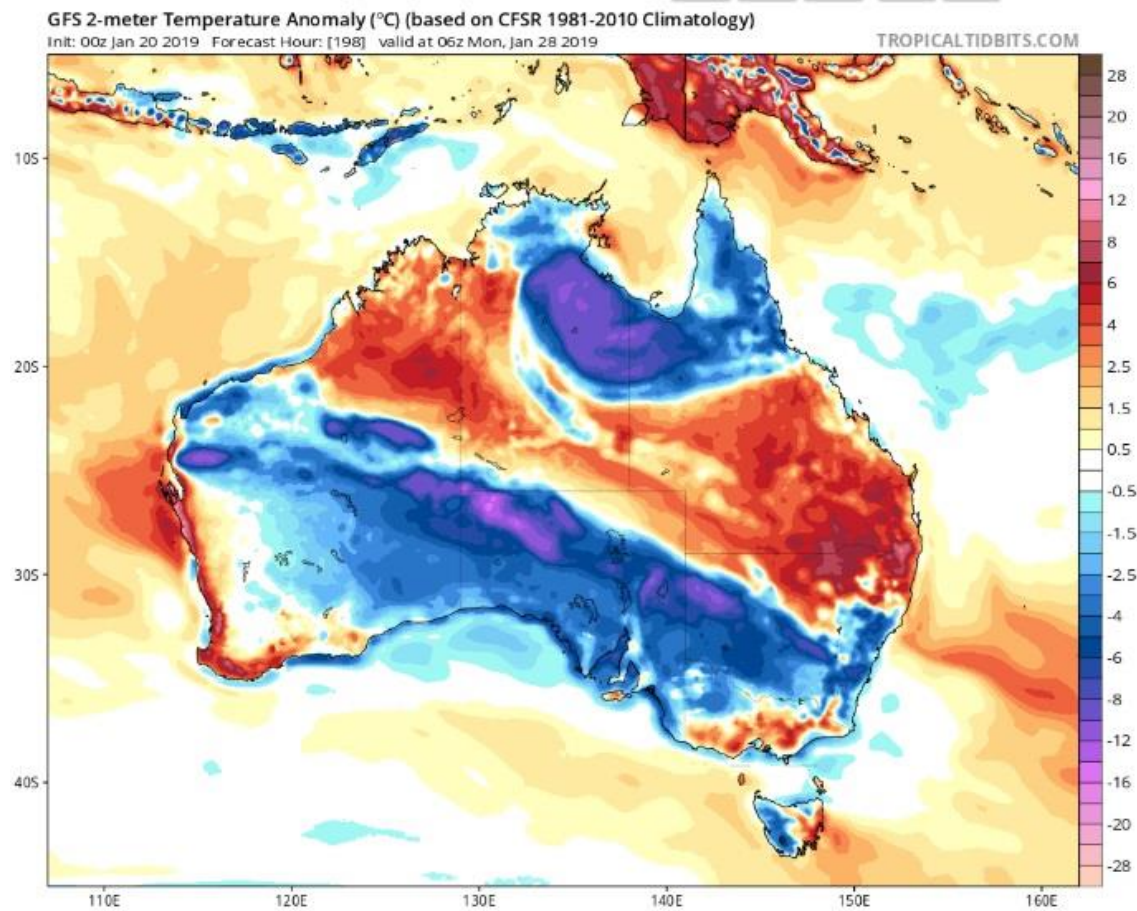
#UPDATE **Australia's** military has been deployed in the country's northeast to tackle devastating "once-in-a-century" **floods** that have inundated homes, schools and airports, forcing hundreds to flee and bringing crocodiles onto the streets. u.afp.com/JoVE #Townsville



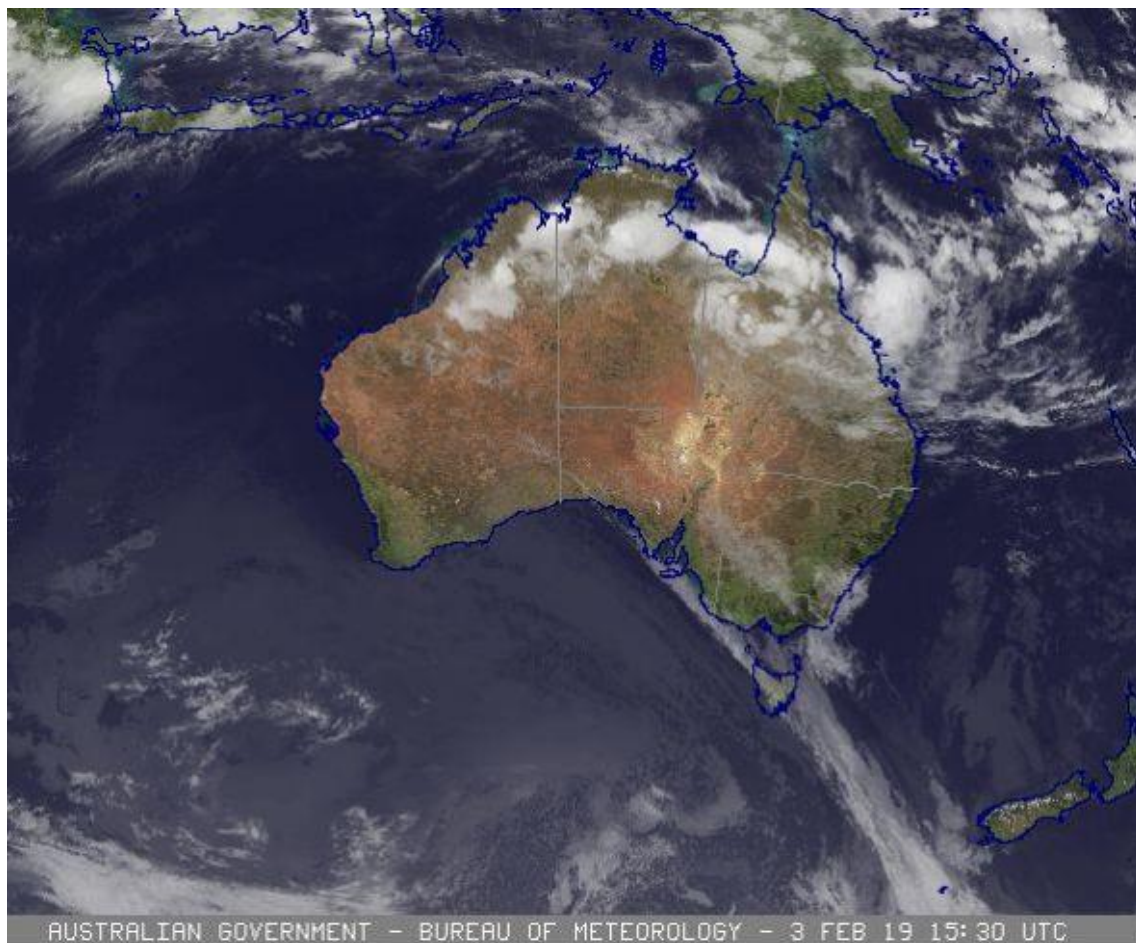
To think that last week, the Australian media was saying it was record hot because it was warmer than usual. They broke a couple of temperature records with an increase of 1 or 2 degrees Celsius.



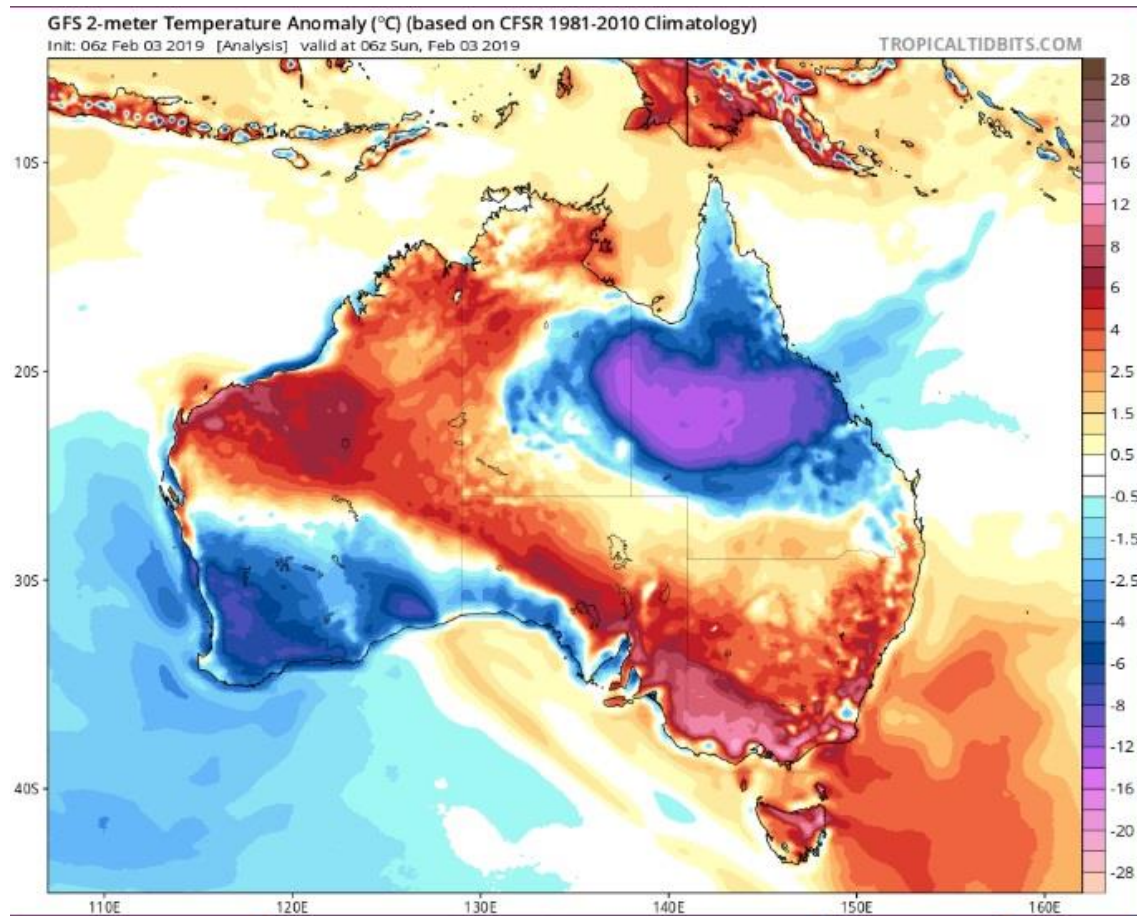
Little did they know, this hot temperature was followed quickly by a cold front and subsequent pockets of cold, northeast.



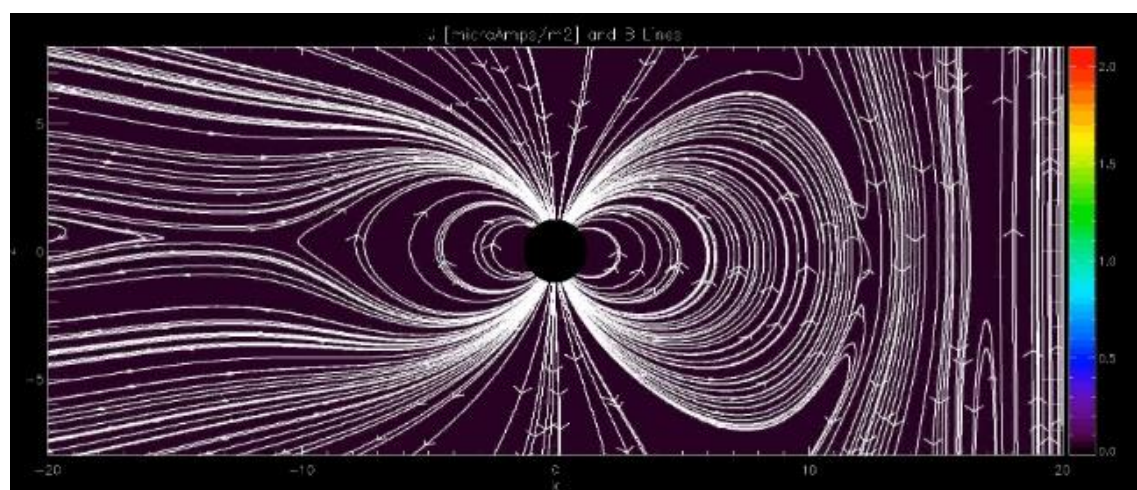
And then, they had this latest event as well. We are looking into the cloud loop, top right is Australia and Papua New Guinea.



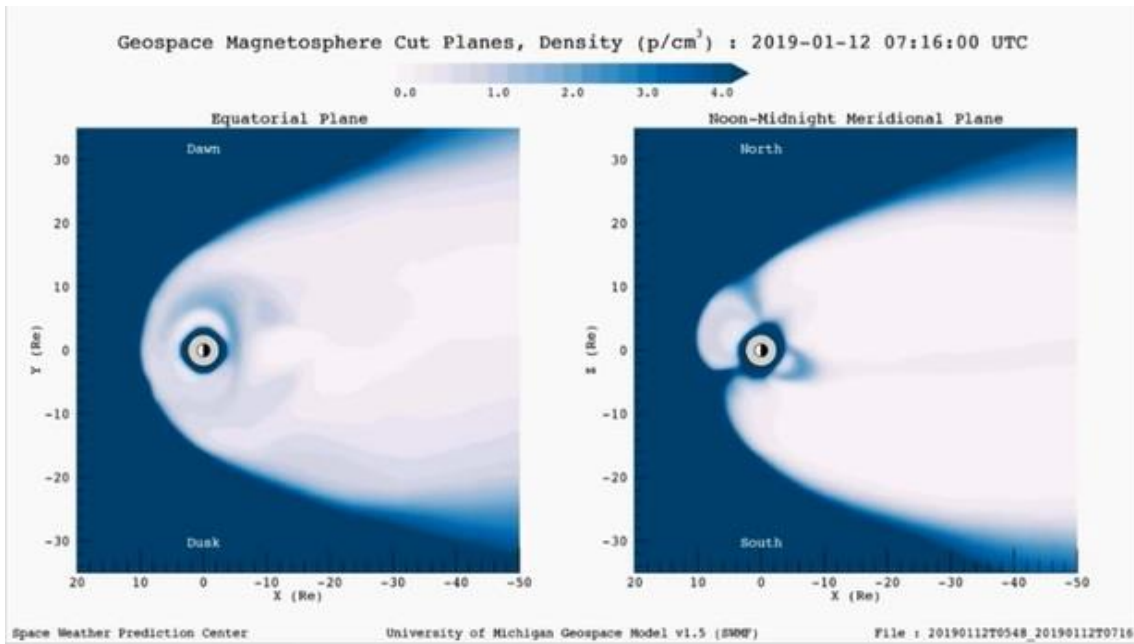
Tropical Tidbits Australian Temperature Anomaly Map showing another cold front proceeding from Antarctica to Western Australia. You can also see how much the temperature dropped in this rain event NE Queensland area.



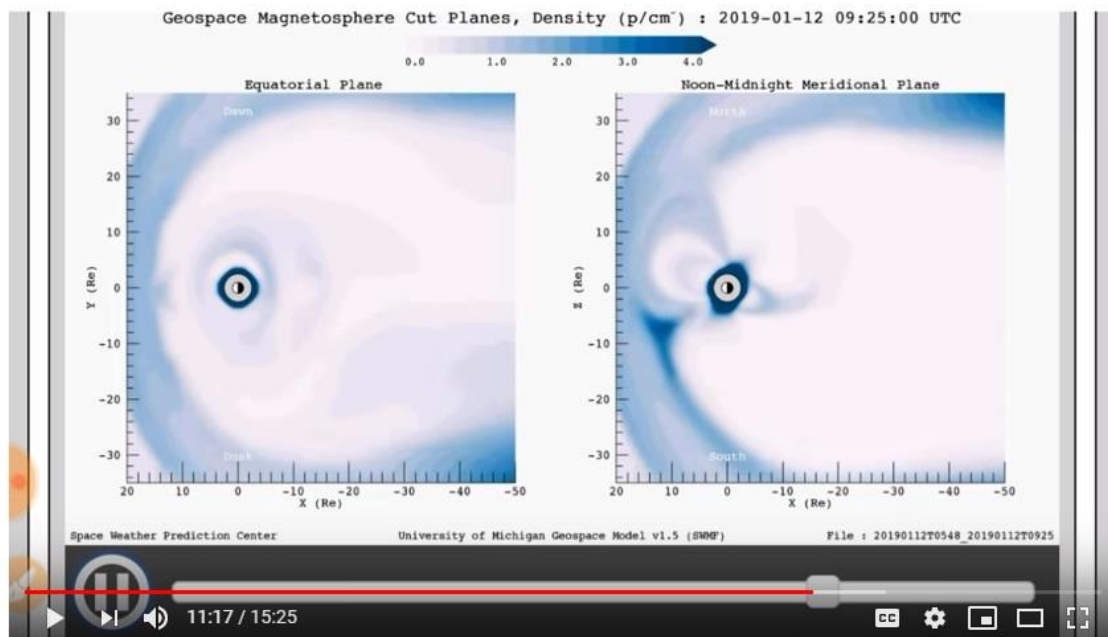
This is all about magnetosphere, solar wind and magnetic effects from the Sun to our Earth, all mashed up.



As seen in the Geospace daily rundown, this is when the solar wind has high plasma density, and then suddenly, no solar wind.

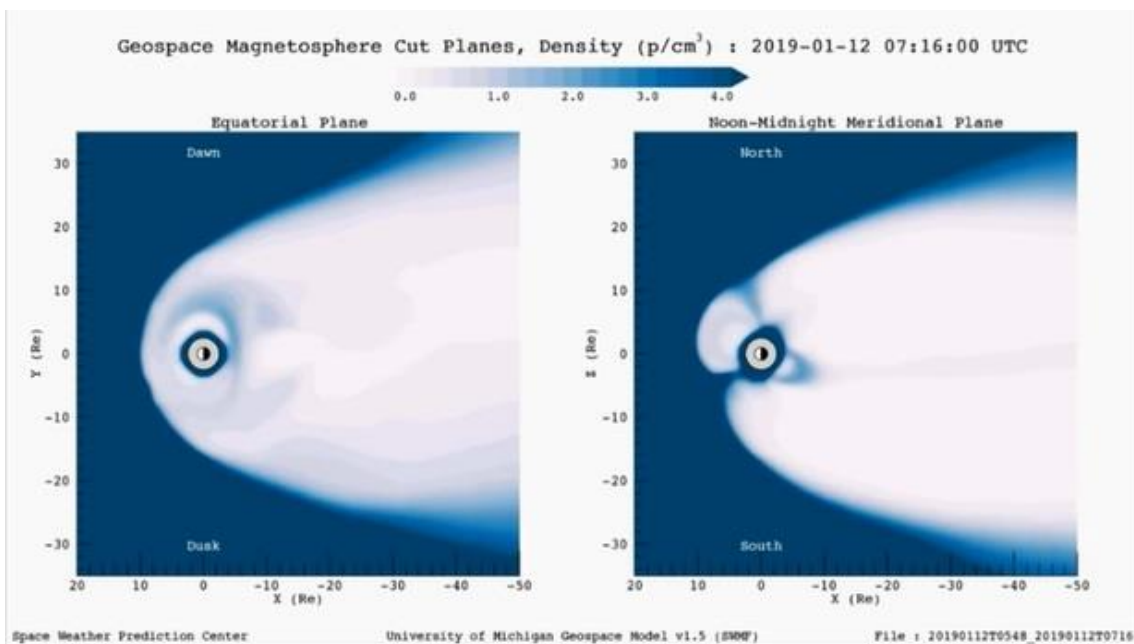


The sudden absence of this solar wind caused this seemingly puffed image of little to no solar wind below.

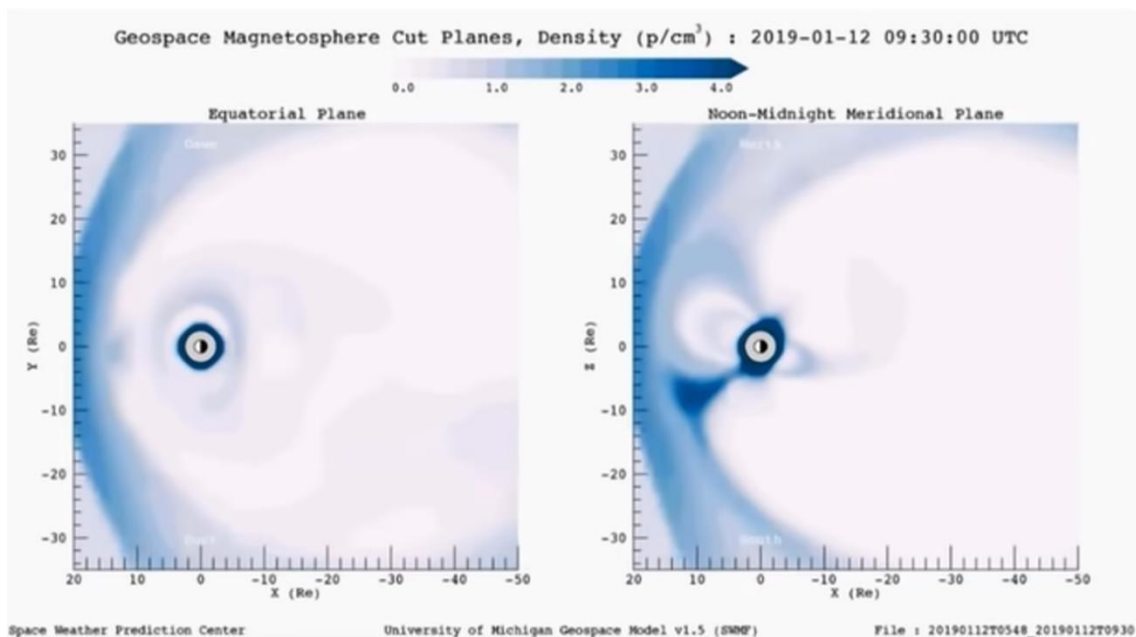


Space Weather: ULTRA WEAK Solar Activity, Indoor Tomato Total Reaches 3, WEAK Magnetosphere,

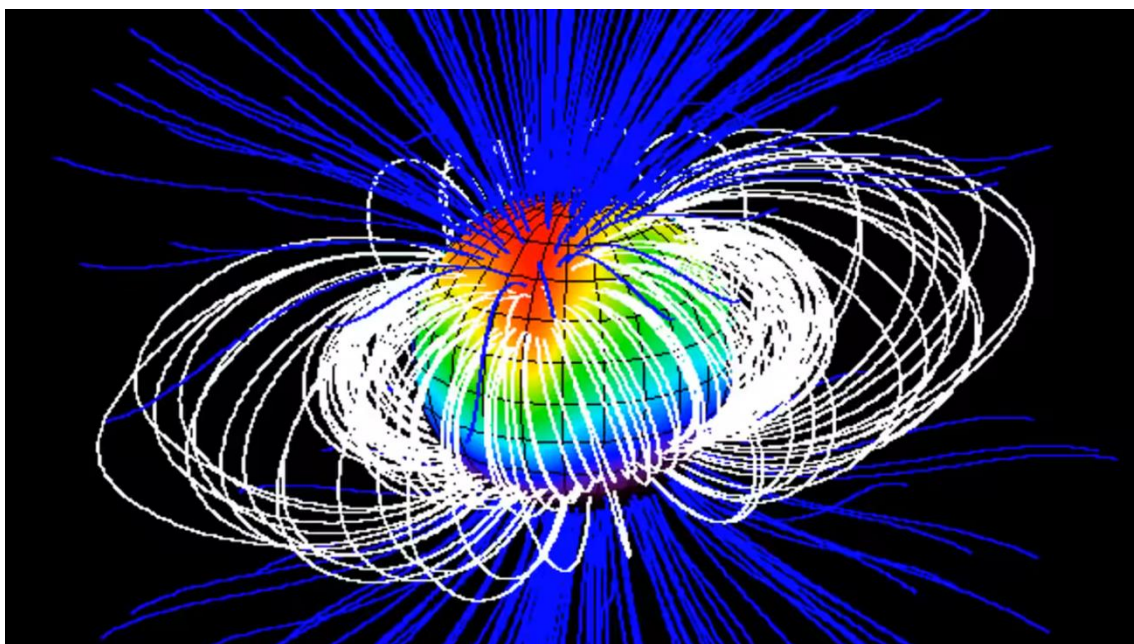
Usually the solar wind is what pushes our magnetosphere and keeps it tight, just like you're seeing in this image.



But then when the wind is released, and that's where we're getting into, we are going to go years of very minimal solar wind, and this is what we're going to get, and this is how jet streams go out of their flow.



So when you see our magnetosphere behaving strangely and our jet streams going out of their flow, this is a simple explanation of what's happening. It is not CO2, It is not you, It is definitely the Sun.



Thanks for reading. I hope you got something out of the article. If you like more analysis and commentary about the Grand Solar Minimum like this, a 30-minute segment of Mini Ice Age conversations is also available anywhere you can find a podcast hosted across the net.



Mini Ice Age Conversations Podcast

iTunes: <https://itunes.apple.com/us/podcast/a...>

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ADAPT 2030 Amazon Grand Solar Minimum Reading List

<https://www.amazon.com/shop/adapt2030>

For the bi-weekly Grand Solar Minimum climate update newsletter from myself, David DuByne, (ADAPT 2030) jump over to oilseedcrops.org you can enter your email and sign up. Move your mouse around for about 10 seconds and this box will pop up.

Join ADAPT 2030 NEWSLETTER <http://www.oilseedcrops.org>

*** Today's Story Links ***

Lightning strikes over Europe

https://www.lightningmaps.org/blitzortung/europe/index.php?bo_page=map&bo_showmap=0&bo_period=48&lang=en

Record rain Australia <https://www.accuweather.com/en/weather-news/australia-historic-flooding-to-continue-worsen-across-queensland-through-the-weekend/70007305>

Rainfall/ Precipitation in Townsville, Queensland, Australia

<https://www.townsville.climatemps.com/precipitation.php>

<https://www.accuweather.com/en/au/national/satellite>

<https://www.accuweather.com/en/au/australia-weather>

Nullschool Jet Stream Australia floods

<https://earth.nullschool.net/#2019/02/02/1800Z/wind/isobaric/500hPa/orthographic=-238.88,-26.38,591>

Australia temperature anomalies

<https://www.tropicaltidbits.com/analysis/models/?model=gfs®ion=aus&pkg=T2ma&runtime=2019020418&fh=-36>

Twitter Australia floods

<https://twitter.com/search?q=australia%20floods&src=typd>

Snow UK <https://twitter.com/StormchaserUKEU>

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