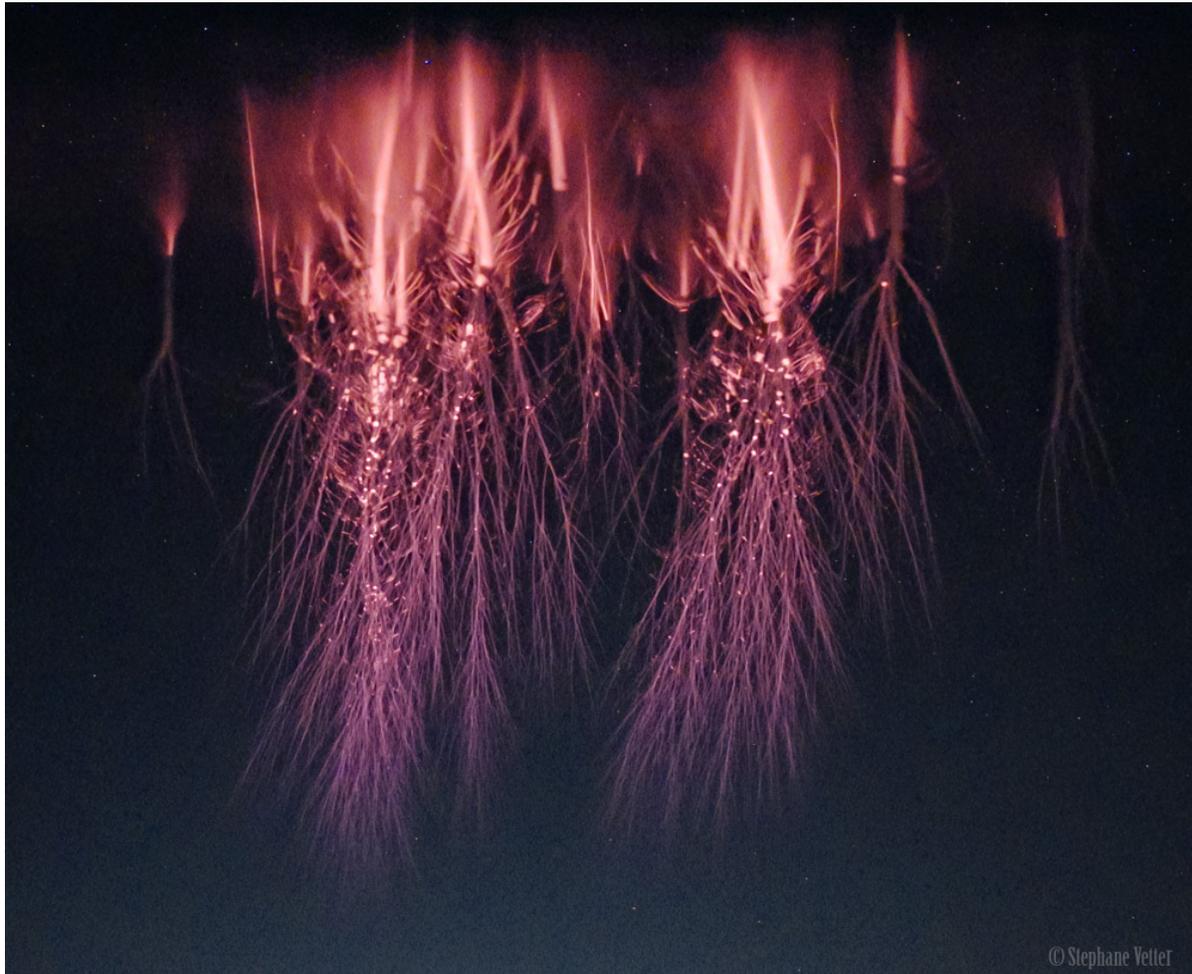


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A RED SPRITE IN THE UPPER ATMOSPHERE | [SCIENCE.NASA.GOV/SPRITE-LIGHTNING-HD](https://science.nasa.gov/sprite-lightning-hd)

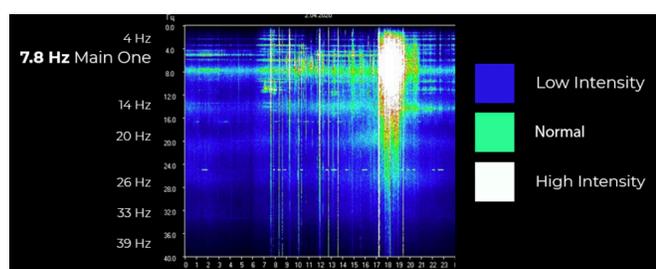
## TRANSIENT LUMINOUS EVENTS & THE SCHUMANN RESONANCE

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When most of us think of the Schumann Resonance, we might recall its resonant frequency of 7.83 Hz (the Alpha brainwave state), that it “hums” along with several harmonics, or that it’s fed by lightning discharges in the Earth’s atmosphere.

In short, the Schumann Resonance, named after Winfried Otto Schumann, is the measurement of the peaks in the ELF (extremely low frequency) spectrum of our electromagnetic field and, yes, lightning occurring around the globe feeds it.



NOC.GALACTICAGE.ORG

But have you ever heard of a SPRITE? What about an Elve? No I’m not talking about the lovely benevolent spirits that flit about the ferns and orchids of waterfall pools, (though we love them too) I’m referring instead to what are called Transient Luminous Events, or TLE’s.

TLE’s are a group of incredibly large visible “lightning-ish” events that occur at insanely high altitudes. We’re talking the stratosphere up to the lower ionosphere. That’s from about 30 to 60 miles, or 160,000 to over 327,000 feet up! In comparison, though lightning can obviously strike the surface of the Earth, it typically only reaches to heights in the upper 40,000’s of feet.

These TLE’s are not only mesmerizing, but they put out extremely high levels of energy which can show up as spikes in the Schumann Resonance (white burst in chart

above). These spikes are called Q-bursts, and while standard lightning plays a part in them, the TLE’s are thought to be one of the main sources of energy that causes the burst.

Now I know what you’re going to ask. You want to know where the TLE’s come from, and what sets them off (and most of you are probably aching to see more beautiful photos of them. I’ll get there I promise!)

Well it turns out that TLE’s, though hard to spot, can often be found to have a direct correlation to your standard lightning strikes. That said, they don’t happen with every strike of lightning, and they aren’t as bright nor long-lasting. They don’t even produce a thunder-clap that you can hear on the ground.

Witnesses to these gorgeous light shows are often flying in jets above or next to strong super-cell thunderstorms, astronauts, or TLE enthusiasts perched in just the right location with their high-speed cameras ready to snap that out-of-this-world photo for those of us who’ve never seen one out in the wild.

These names are in fact acronyms (scientists love their acronyms, but I gotta give it to them here in choosing the perfect ones for their TLE’s)

## **S.P.R.I.T.E.**

Stratospheric Perturbations Resulting from Intense Thunderstorm Electrification

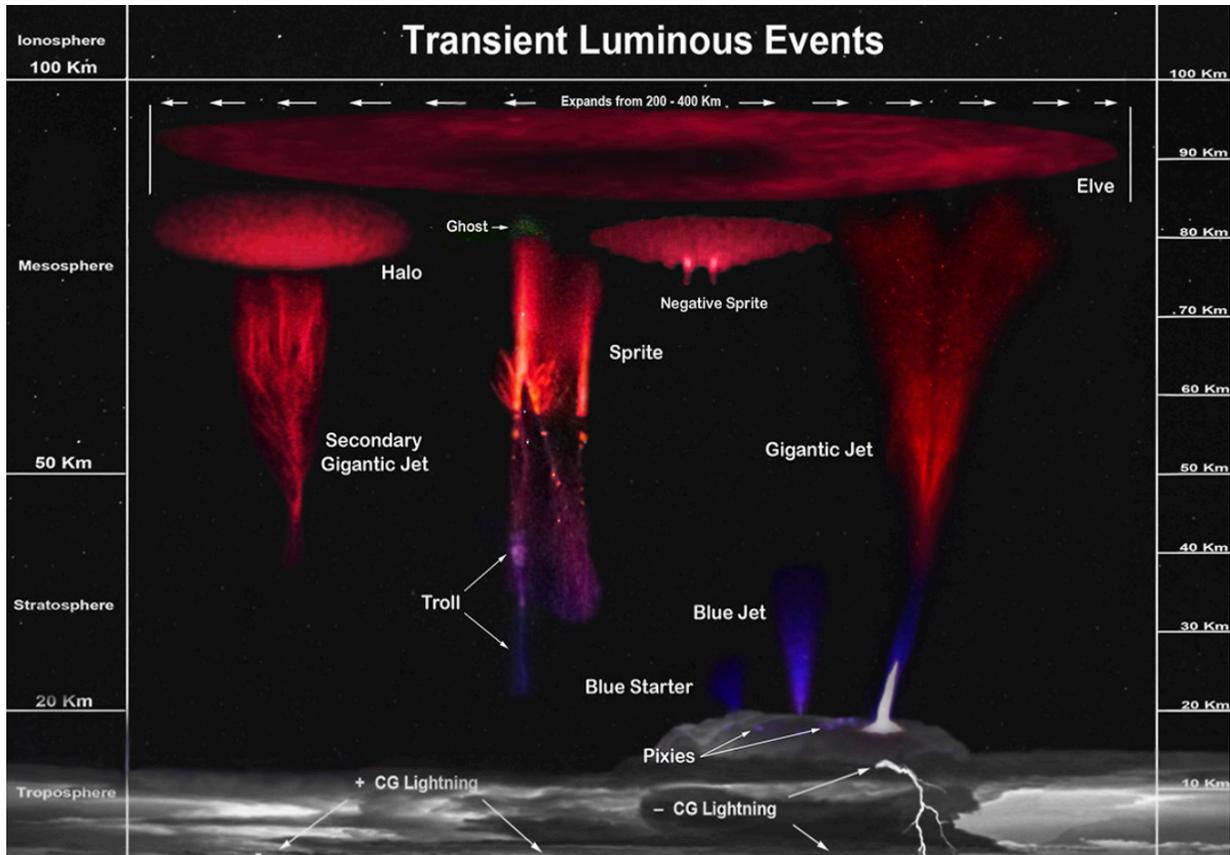
## **E.L.V.E.S.**

Emission of Light and Very Low Frequency perturbations due to Electromagnetic Pulse Sources.

*But wait, there’s more!*

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SPACEWEATHERARCHIVE.COM/2020/03/07/GET-READY-FOR-SPRITE-SEASON/

## T.R.O.L.L.S.

Transient Red Optical Luminous Lineaments

## G.H.O.S.T.S.

Green Emissions from excited Oxygen in Sprite Tops

These, along with **Pixies**, **Gnomes**, **Jets**, **Blue Jets**, **Blue Starters**, and **Gigantic Jets** make up the bulk of TLE's.

Now I've said that these TLE's are hard to spot, but that doesn't mean it's not possible.

For example, should you now have SPRITE-viewing as a new line item on your bucket list, you'll be most likely

to get a glimpse during a spring thunderstorm in the Midwest region of the United States.

These are global events however, and if you're in the right place at the right time, you can get a glimpse of them in many places around the Earth.

Take a look at <https://spaceweathergallery.com/index.php?title=sprite&title2=jet>

Of course being directly under the storm wouldn't help, as these events occur high above the cloud tops.

You'd want to have a clear view of the top of the storm from a distance, and you'd want a high-speed camera

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to verify you did in fact see one because they come and go in a fraction of a second, right after a strong lightning strike, or cluster of strikes.

There is still much to learn about the Schumann Resonance, and the events here on Earth that create its beautiful music. For example, some say that in fact whales and dolphins also feed into the Schumann with their beautiful song.

With all we still have to learn though, I find the striking imagery of the SPRITES, ELVES, TROLLS, and GHOSTS of the sky high above us as a grounding reminder of the beauty of our living home, mother Earth.

Below are some great videos that have captured TLE's in action;

## Via NASA, TLE's from space

<https://www.youtube.com/watch?v=sQH6Oo4hn94>

## TLE's explained with video

<https://www.youtube.com/watch?v=tGPO5kzJ9Tg>

## Red SPRITE in slow motion

<https://www.youtube.com/watch?v=6gctg7Zq2Uw>

## Beautiful capture of SPRITES

<https://www.youtube.com/watch?v=Fadn0Kvmui4>



TARRDANIEL.COM/DOCUMENTS/UFOLOGY/SPRITE.HTML



DIGITAL ARTWORK BY GERMAN ARTIST ALEXANDER ROMMEL

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[APOD.NASA.GOV/APOD/AP160823.HTML](https://apod.nasa.gov/apod/ap160823.html)



[THEKIDSHOULDSEETHIS.COM/POST/TRANSIENT-LUMINOUS-EVENTS-JELLYFISH-SPRITES-JETS-GHOSTS-VIDEO](https://thekidsshouldseethis.com/post/transient-luminous-events-jellyfish-sprites-jets-ghosts-video)