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Grand Solar Minimum – Brief Explanation

Sunspots were discovered simultaneously with the invention of the telescope.

It was the first step to understanding how our sun's magnetic fields affect our planet.

Sunspots are “measuring sticks.” They tell us what the sun's magnetic fields are doing.

Why is that important?

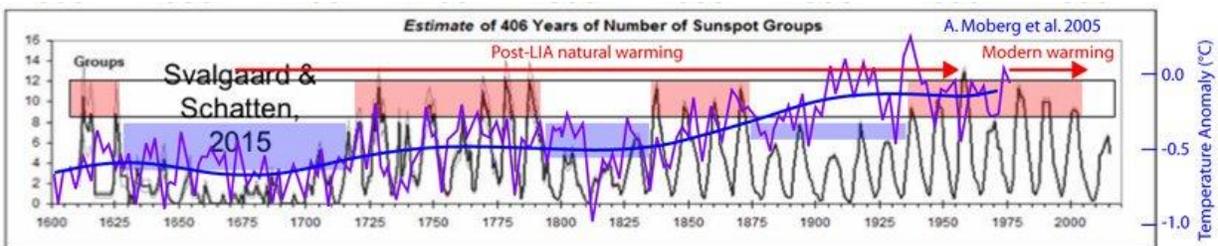
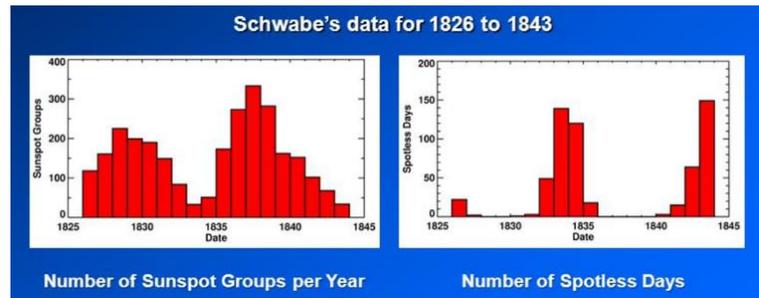
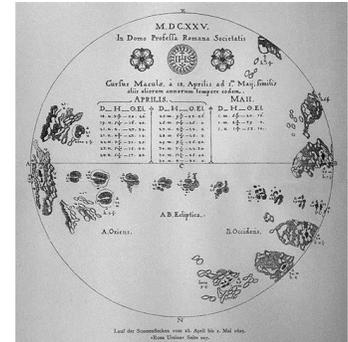
It's important because sunspots first showed us that the sun has natural cycles.

Early scientists simply counted the number of sunspots over a year and put them on a graph. It was that easy.

Every 11 years. A minimum, a maximum, then another minimum.

So, what's the big deal?

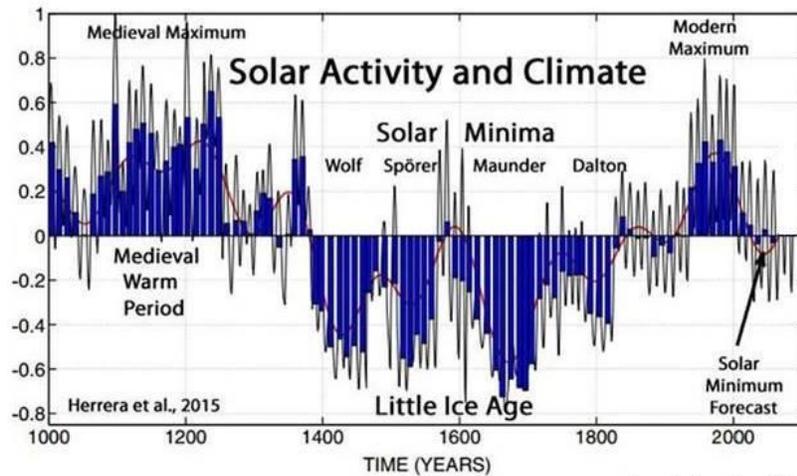
These smaller cycles are grouped together over time to show clear patterns. Great lengths of time. Put on a wide lens.



Collectively being weaker or stronger than the cycles to the left or right. Just stand back further to see a larger sample of cycles to see the trend.

Up, down, up down. Maximum, minimum, maximum, minimum.

Solar Activity Is The Clear Driver Of Earth's Climate



Oppenheimer Ranch Project

For example, there's a time between 1350 – 1800 known as the “Little Ice Age” The sun was less active. It gave our planet less heat. Less energy. This was a natural Grand cooling cycle.

So, there's cycles within cycles.

Depending on the length of time the cycle lasts, we call these Grand cycles, or Super Grand cycles.

How does that affect you? We need to study known history to see what to expect.

Next, connect known history to extreme weather events. Remember the Little Ice Age?

We thrive in the warmth. We don't do so good in the cold. Humans are a fragile species.

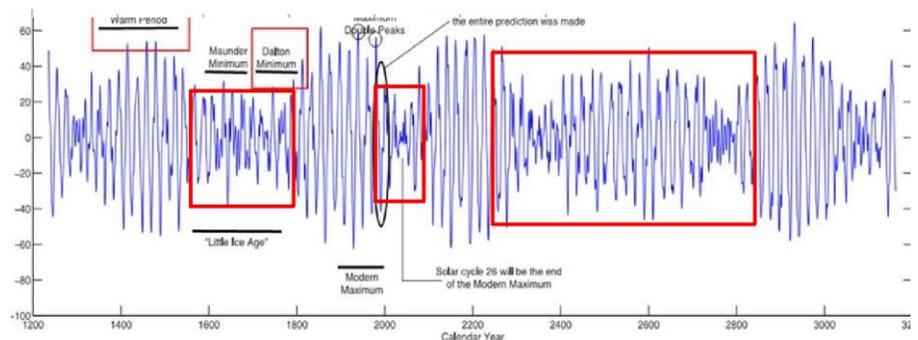
So what?

What's so important about the magnetic fields and the sunspot connection?

It was recently discovered (Zharkova ; June 2019) how vital the sun's magnetic fields are to our planet.

The sun operates through natural cycles of increasing temperature and periods of decreasing temperature due to how the sun's 4 magnetic fields interact with each other.

What are the sun's 4 magnetic fields doing right now?

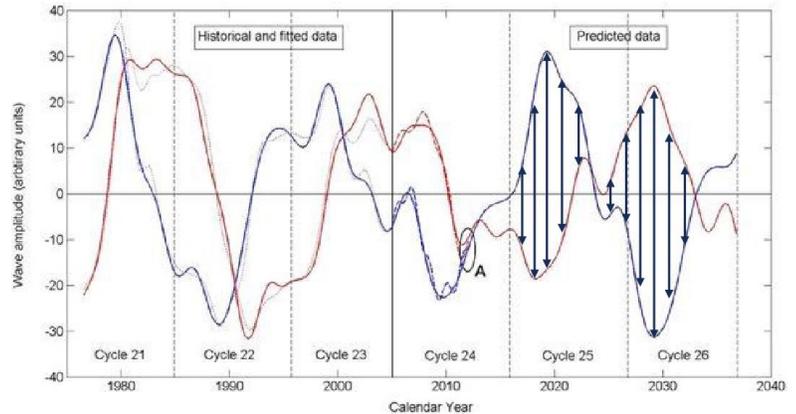


We've been seeing diminishing sunspot numbers. The past four 11-year cycles have been smaller and smaller. (Roughly 30% less sunspots per cycle).

Why are the sunspot numbers diminishing?

The sun is dimming because all 4 of the sun's magnetic fields are going out of phase.

No one alive has ever experienced what we're about to go through. We need to study history to have a clear picture of what to expect.



The natural heating cycle has ended, and a natural cooling cycle has begun. It's called a Grand Solar Minimum.

How does the Grand Solar Minimum cooling process start? What should I look for? How will I know it's really happening?

You'll see cold weather records AND hot weather records. Wild swings in temperature. You'll see extreme weather events that produce record rain and record hail. You'll see intense lightning events and unusual auroras. You'll see an increase in seismic activity along with an increase in volcanic activity. Cosmic rays will be at an all-time high. That's not a complete list. It's a step by step process to initiate the deep cooling cycle.

If you're not paying attention, what will be the first sign that something is wrong? You'll see food price increases followed by food shortages.

How long will this Grand Solar Minimum last?

Expect extreme weather events and then sharp cooling over the next 40 years. We'll return to conditions that mimic the time in history from 1350 – 1800. That era was known as the Little Ice Age. That Grand cycle will last 350 – 400 years.



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