

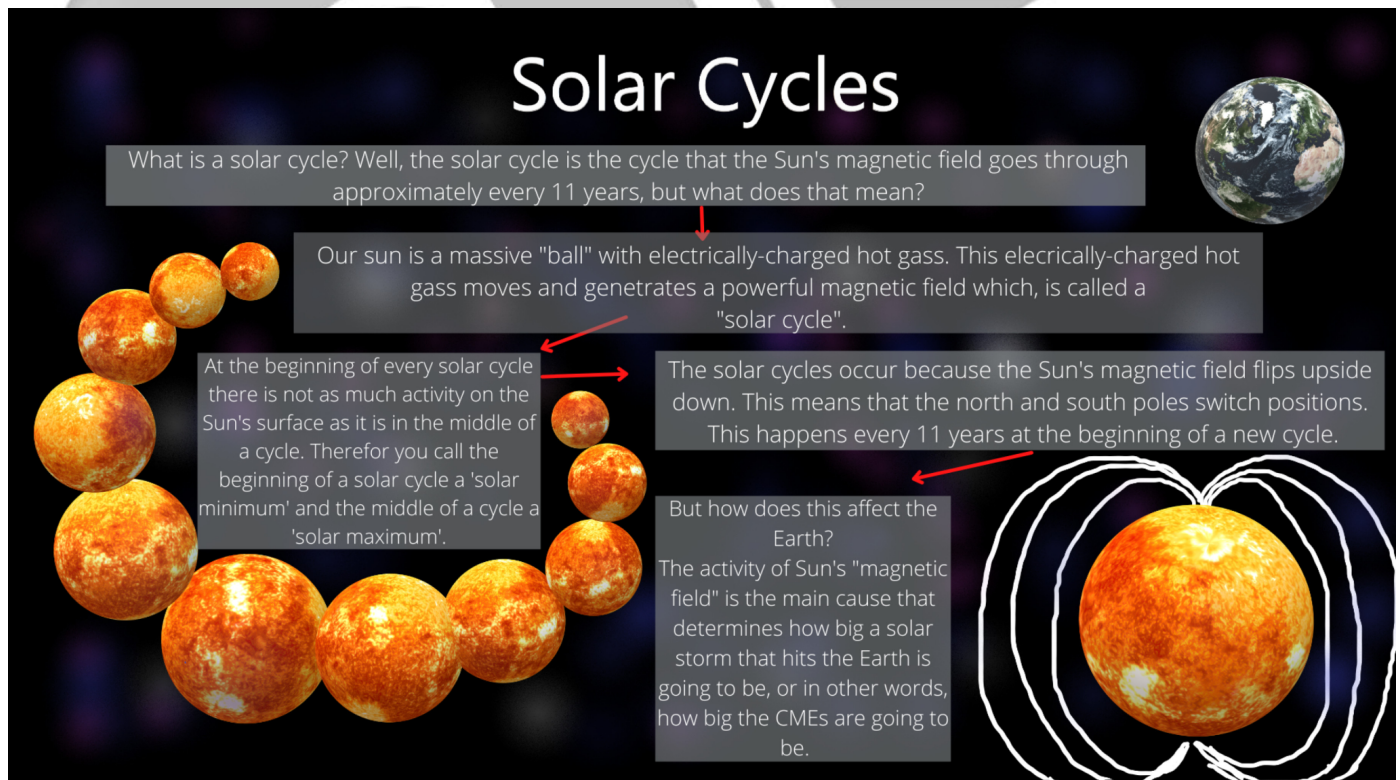


Simultaneous Eruption of Solar Flares

[Source: IE](#)

Recently, the [National Aeronautics and Space Administration \(NASA\)](#) solar dynamics observatory captured a rare celestial event that occurred with **four solar flares erupting simultaneously**.

- It originated from **three sunspots and a large magnetic filament**, demonstrating complex magnetic interactions.
- When the sun reaches the peak of its 11-year solar cycle known as solar maximum, it exhibits heightened activity.
 - It is known as a **sympathetic solar flare**, where multiple eruptions occur across the Sun's magnetic field, linked by massive magnetic field loops.
- **Sympathetic flares** are caused by **one eruption triggering others**, leading to [Coronal Mass Ejections \(CMEs\)](#) and massive bursts of plasma.
- It is considered **rare** because most reported sympathetic flares involve only two linked flares, while this one involved **four flares** erupting in unison making it a super-sympathetic event.
- These types of events have the **potential to disrupt power grids, telecommunication networks on Earth**, and orbiting satellites, and expose astronauts to dangerous radiation levels.
- This event offers scientists an opportunity to understand the **Sun's complex life cycle** and magnetic interactions better.
- The **sun's magnetic field goes through a cycle**, called the solar cycle, every 11 years the Sun's magnetic field completely flips which means the **sun's north and south poles switch places**.



Read more: [Solar Radiation Management](#)

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