

Solarspots

Solar spots are concentrated, cool areas of about 5,000 °F, and appear as dark spots of varying sizes on the sun's surface. They are usually found in the sun's active regions, which are areas of intense magnetic activity. They are usually found in groups and can last for days or weeks.



NOAA Space Weather Prediction Center — www.spaceweather.gov

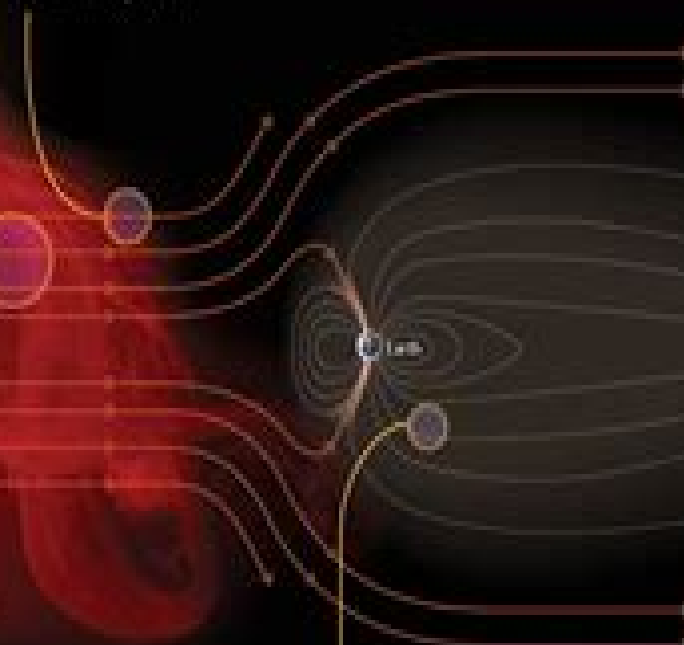
Coronal Mass Ejections (CMEs)

Large portions of the sun's, or solar, outer layers of the sun, can be explosively blown into space, sending billions of tons of plasma, or ionized gas, toward Earth. These CMEs have their own magnetic field and can take time and interact with Earth's magnetic field, resulting in geomagnetic storms. The fastest of these CMEs can reach Earth in under a day, with the slowest taking 1 or 2 days to reach Earth.



Solar Wind

The solar wind is a constant outflow of the ions and electrons from the sun, always present and traveling at high speeds. The background solar wind flows at approximately one million miles per hour.



Space Weather

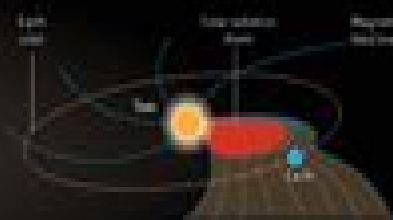
Space weather refers to the variable conditions on the Sun and in the space environment that can influence the performance and reliability of space-based and ground-based technological systems, as well as endanger life or health. Just like weather on Earth, space weather has its seasons, with solar activity rising and falling over an approximate 11 year cycle.

Sun's Magnetic Field

Strong and ever-changing magnetic fields drive the life of the sun and enable sunspots. These strong magnetic fields are the energy source for space weather and their twisting, shearing, and reconnection lead to solar flares.

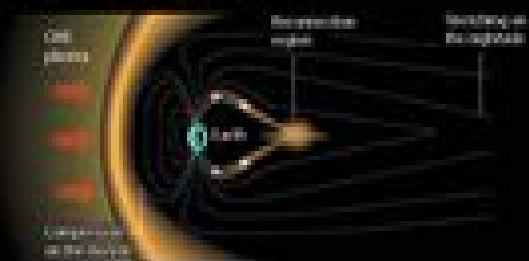
Solar Radiation Storms

Charged particles, including electrons and protons, can be accelerated by coronal mass ejections and solar flares. These particles become and spiral their way through space, mostly following the magnetic field lines and ultimately bombarding Earth from every direction. The fastest of these particles can affect Earth less than minutes after a solar flare.



Geomagnetic Storms

A geomagnetic storm is a temporary disturbance of Earth's magnetic field typically associated with intense activity in the solar wind. These storms are created when the solar wind and its magnetic field interacts with Earth's magnetic field. The primary source of geomagnetic storms is CMEs which reach the magnetosphere on the nightside causing the release energy through magnetic reconnection. Disturbances in the ionosphere (a region of Earth's upper atmosphere) are usually associated with geomagnetic storms.



Source: NOAA, NASA

Sun And Space Weather

Raffaela Di Napoli



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