

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 surrounded by a bright, white, glowing ring called a solar prominence. At the center of each solar spot is a dark, umbra, and a lighter, penumbra, which is a ring of gas that surrounds the umbra.



NOAA Space Weather Prediction Center — www.spaceweather.gov

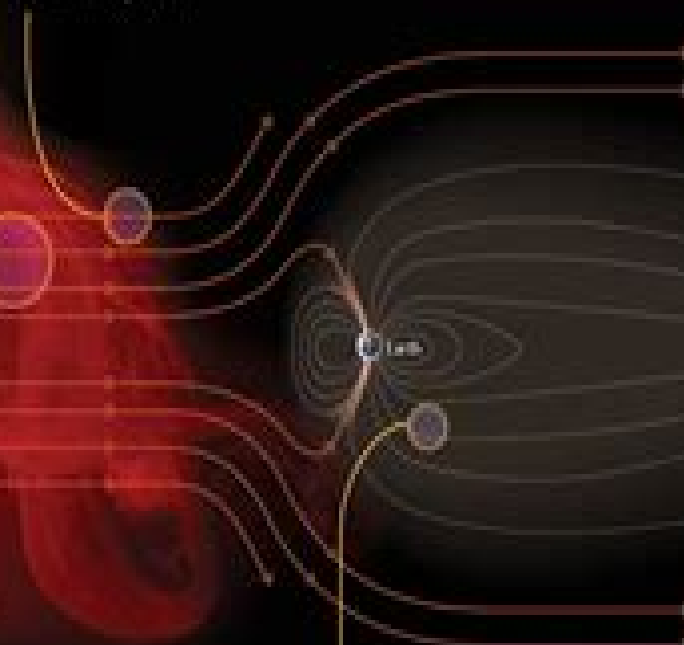
Coronal Mass Ejections (CMEs)

Large portions of the corona, or outer atmosphere 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.



Solar Flares

Reconnection of the magnetic fields on the surface of the sun often the biggest explosions in our solar system. These solar flares release enormous amounts of energy and result in electromagnetic emissions spanning the spectrum from gamma rays to radio waves. Traveling at the speed of light, these emissions reach the 93 million mile trip to Earth in just 8 minutes.



Earth's Magnetic Field

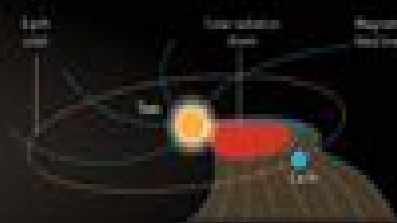
Earth's magnetic field largely like that of a bar magnet, gives the Earth some protection from the effects of the sun. Earth's magnetic field is constantly compressed on the day side and stretched on the night side by the ever present solar wind. During geomagnetic storms, the disturbance to Earth's magnetic field can become extreme. In addition to being buffeted by the atmosphere, the field also often comes disturbing from the charged particles of radiation storms.

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.

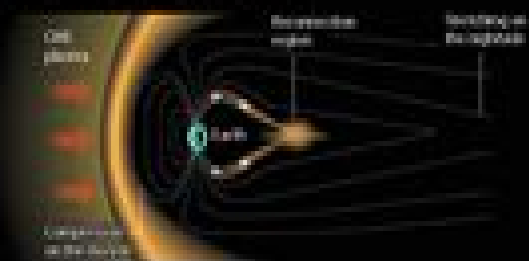
Solar Radiation Storms

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 extreme events 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

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