

SPACE WEATHER AND ITS EFFECTS ON EARTH

Similar to Earth's weather, space hosts dynamic patterns that can impact life on our planet. Space weather refers to conditions in the solar system produced by the Sun's activity.



What is the weather in space, and when are they likely to strike us?

The Sun operates in an eleven-year solar cycle, and CMEs and flares are more common during the middle part of the solar cycle, called solar maximum. During solar maximum, the Sun may produce several CMEs per day and a few truly massive explosions per year.

Roboto

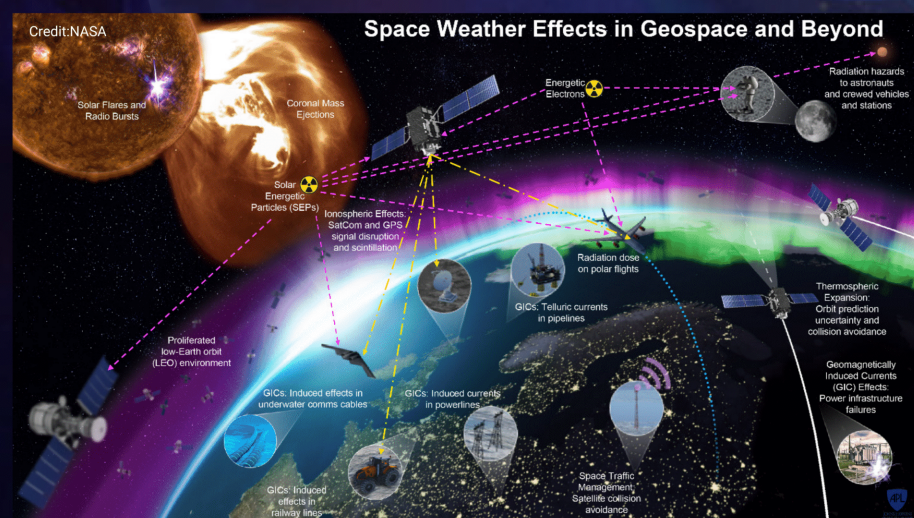


The area within the safety of Earth's magnetic field is called the magnetosphere.

Earth has a large, strong magnetic field produced by charged molten iron churning in its core. That field keeps away most of the charged solar wind streaming toward Earth, just like an umbrella works in a rainstorm.

How does it affect Earth?

- Radio blackout storm
- Solar radiation storm
- Geomagnetic storm



s.koya@uoi.gr
Twitter: KoyaShifana

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