Interplanetary Coronal Mass Ejections

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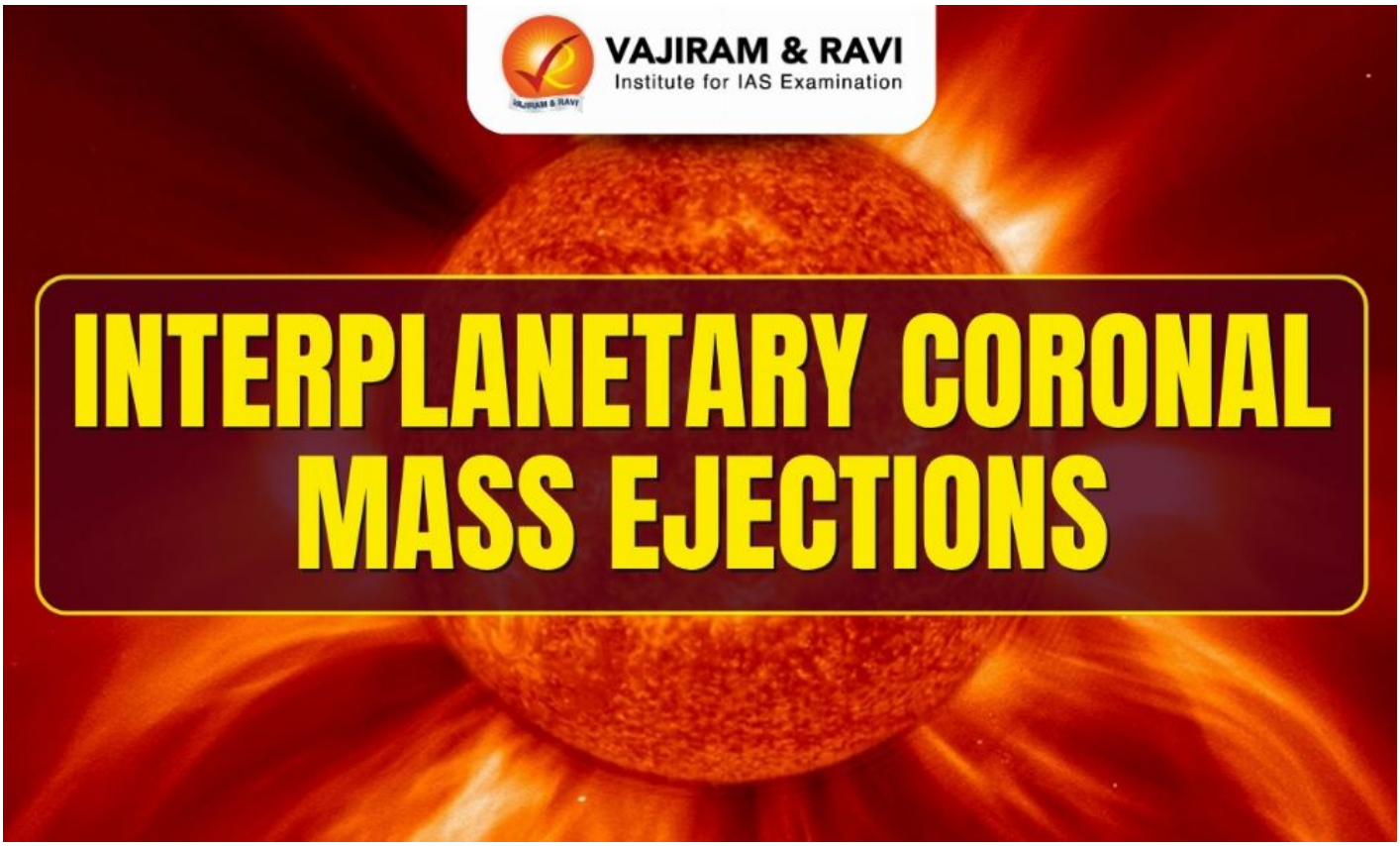

Interplanetary Coronal Mass Ejections Latest News

Indian astrophysicists have uncovered new insights into how large solar eruptions called Interplanetary Coronal Mass Ejections (ICMEs) evolve thermally during their journey from the Sun to the Earth.

About Interplanetary Coronal Mass Ejections

- These are **massive blasts of magnetized plasma** released from the **Sun's outer atmosphere**, which then travel through interplanetary space.
- When those ICMEs are directed towards us and encounter Earth's magnetic field, they can disturb it and cause **geomagnetic storms.**
- They produce colorful, **dazzling auroras in Earth's upper atmosphere.**
- The level of activity of the Sun has an 11-year cycle, and more ICMEs are created during the maxima of these cycles.
- ICMEs are **responsible for the severest of geomagnetic storms** when they impinge upon Earth's magnetosphere.

- ICMEs also provide an enormous plasma laboratory to study physical processes in space.
- **Impacts of Interplanetary Coronal Mass Ejections:** These storms have **adverse effects on satellite operations**, GPS and radio communications, aviation routes, and power grids.

Source: PIB
