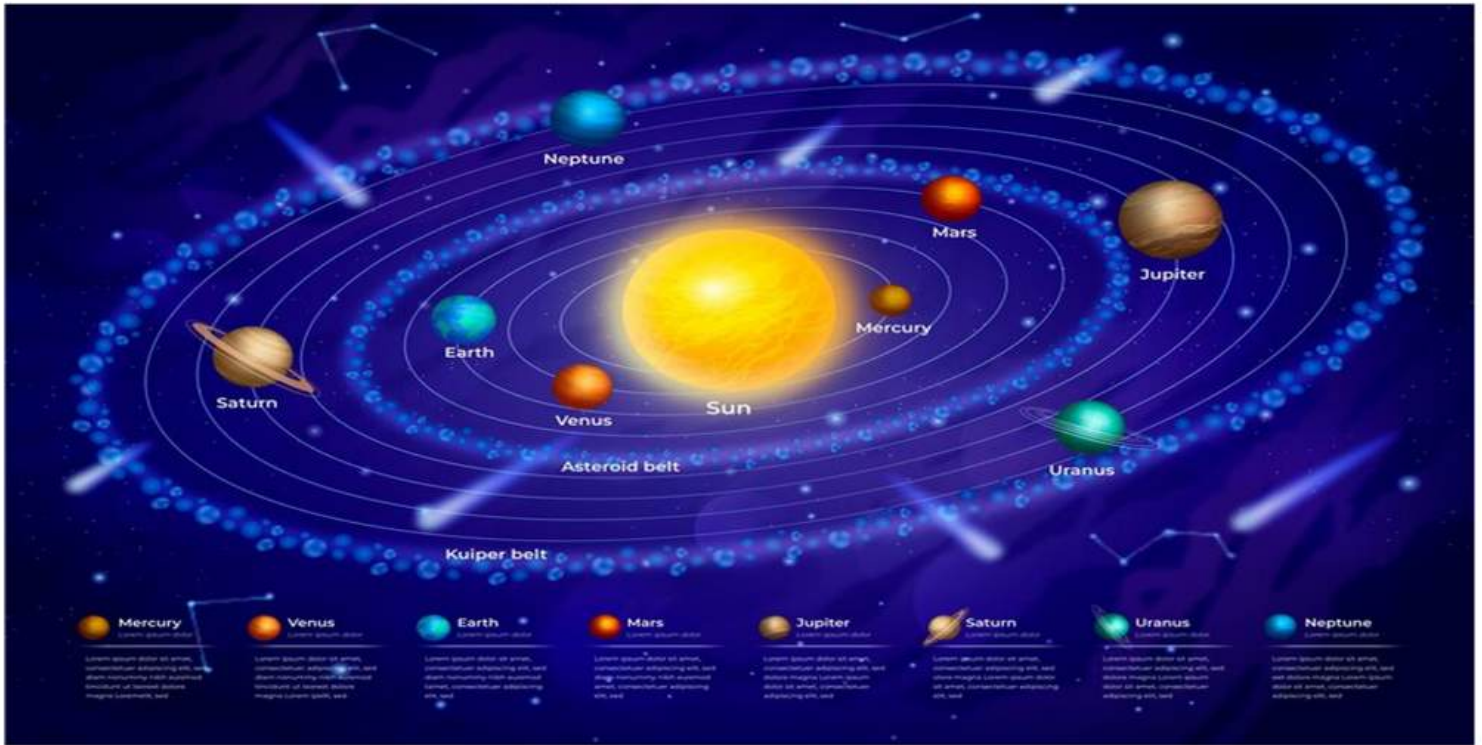


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Geomagnetic Disturbances, Extreme Space Weather Events
and Solar-terrestrial Influences



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Geomagnetic Disturbances, Extreme Space Weather Events and Solar-terrestrial Influences

Aims and Scope:

Geomagnetic storm is the major disturbance which occurs in the Earth's magnetosphere due to the well-defined energy exchange from the solar wind into the earth-surrounding space. They can be generated due to solar wind shock waves. Space weather; is the variability of plasma, magnetic fields, and energetic particles in the near-Earth space environment; has been influenced by the solar cycles. The probability of space-weather events is found more at the solar maxima than at the solar minima. It is influenced by the solar cycle. When the Earth interacts with the solar plasma emissions, it can cause strong space weather events. All of these events are modulated by the solar wind influences and the geomagnetic activity level can be determined by the solar-terrestrial relationships. This book entitled "Geomagnetic Disturbances, Extreme Space Weather Events and Solar-terrestrial Influences" will primarily focus on the following topics (not limited to) on geomagnetism, sun-earth relation and associated extreme weather events with an aim for the proper understanding of the cause and effect scenario of the extreme weather events and their environmental impacts

List of Topics:

- Coronal mass ejections (CMEs)
- Co-rotating interaction regions (CIRs)
- Solar flares
- Geomagnetically induced currents (GICs)
- Geomagnetic storms
- Solar-terrestrial magnetic activity and space environment
- Multiple storm hazards
- Hazardous weather events
- Solar activity
- Cosmic influences
- Long-term space weather events
- Short-term space weather events
- Solar-terrestrial relationship
- Sun and the solar wind
- Solar plasmas
- Sudden commencement events
- Environmental impacts

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